

William B. Lober, MS, MD

Medical Education and Biomedical Informatics

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Curriculum Vitae - Updated August 29, 2006

EDUCATION (MOST RECENT FIRST)

Postgraduate Training

1999-01	Extramural Fellow National Library of Medicine (F38)	University of Washington, Seattle, WA
	Applied Medical Informatics	Department of Biological Structure
1998-99	Fellow in Structural Informatics	University of Washington, Seattle WA
	Image Annotation and Knowledge Representation	Department of Biological Structure
1994-97	Resident in Emergency Medicine	University of Arizona, Tucson AZ
	Incl. two month appt. as Registrar in Emer. Med.	Royal Brisbane Hospital, Queensland, Aust.

Education

1989-94	University of California San Francisco/Berkeley Joint Medical Program	
1992-94	UC San Francisco	MD
1989-92	UC Berkeley	MS Health Sciences
1980-81	University of California, Davis	Computer Engineering
1976-80	Tufts University	BSEE Electrical Engineering

MEDICAL LICENSURE

1997 -	State of Washington
1997	Queensland, Australia (provisional, inactive)
1996-97	State of Arizona (inactive)

SPECIALTY BOARD CERTIFICATION

1998 -	American Board of Emergency Medicine
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PROFESSIONAL POSITIONS

Faculty Positions (University of Washington)

2005 - ...	Associate Professor , BNHS	School of Nursing
2005 - ...	Adjunct Associate Professor , Health Services	School of Public Health and Comm Medicine
2004 - 05	Adjunct Research Assistant Professor,	School of Public Health and Comm Medicine
2003 - 05	Faculty Associate Vice Provost's Office of EPLT	
2001 - 05	Research Assistant Professor, Biomed & Health Inf	Dept Med Education & Biomedical Informatics
2000 - 01	Acting Instructor, Biomedical & Health Informatics	Department of Medical Education, UW
1997 - 00	Acting Instructor, Emergency Medicine	Dept of Medicine, University of Washington

Informatics Positions

2000 - ...	Director, Clinical Informatics Research Group	University of Washington
	<i>Leads a group of 4-5 staff and 1-3 students in informatics research, development, and deployment of individual and population health applications in clinical and public health informatics.</i>	
1986 - 89	Manager of Software Development	Quantum Consulting, Inc., Berkeley CA
	<i>Partner in a start-up firm specializing in economic modeling and forecasting for the electric utility industry. Responsible for software design, and management of six programmers.</i>	
1982 - 86	Founder, Managing Partner	Amador Computer Inc, Berkeley, CA
	<i>Started a computer design firm based on UC Davis thesis work. One partner and six employees. Consulted on computer hardware and software design projects, particularly small unix systems and graphics.</i>	

Clinical Emergency Medicine/Emergency Medical Services Positions

1997 - 00	Attending Physician , Emergency Services	Dept of Medicine, University of Washington
1994 - 97	Clinical Instructor (Housestaff) , Emergency Medicine	Dept of Surgery, University of Arizona
1988 - 89	Paramedic	Allied Ambulance, Oakland, CA
1988	Paramedic Intern , Paramedic Program	Foothill College/Stanford Hosp, Palo Alto, CA

1987 **Emergency Medical Technician**

Allied Ambulance, Oakland, CA

RESEARCH EXPERIENCE (LISTED IN ORDER OF PROJECT END DATE)

Total budgets for period are listed; 'CIRG support' refers to significant intramural support for my research group from other PI's grants or contract.

- 6/04-5/07 **Investigator (Informatics Lead)**, "Electronic Self Report Assessment - Cancer". *Develop, pilot test, and assess a web based quality of life assessment across multiple services areas in a major cancer center. Assess utility in increasing appropriate referrals.* National Cancer Institute.
- 7/04-3/06 **Principal Investigator (UW sub budget)**, "Puget Sound Infectious Disease Tracking System", *Integrated public health reporting, evaluating utility of integrated surveillance, and developing capabilities for civilian/military data sharing,* US Army Medical Research Program.
- 12/04-7/05 **Investigator (Informatics Lead)**, "ITECH". *Develop a series of information systems for collection of data in HIV/AIDS care.* CDC - PEPFAR.
- 7/03-6/05 **Principal Investigator**, "Clinical Data and Architectures in Support of Clinical Research", *Maintenance and development of an XML-based integrated interface to clinical data for enterprise research support, development of federated authentication.* Funding through salary support and transfer funds from: Fred Hutchinson Cancer Research Consortium/UW Medicine ITS.
- 4/04-5/05 **Investigator (Informatics Lead)**, "Personal Patient Profile - Prostate: A Customized Internet Decision Support Program". *Develop, pilot test, and assess a web based decision support tool for men with prostate cancer. Test the feasibility of the tool in the Spanish language.* National Cancer Institute.
- 12/04-3/05 **Investigator (Informatics Lead)**, "CNICS". *Develop a large scale data integration repository to support HIV/AIDS observational research across a network of 6 Centers for Aids Research.* . NIH - NIAID.
- 7/03-3/05 **Principal Investigator**, "Web-based data integration to support biomedical research", *Design and build an information system to support internal organization of, and external access to, both clinical and research data in a biomedical research lab, across multiple R01 projects* GI Pathology Group.
- 9/04-12/04 **Principal Investigator**, "Architectural Applications of PHINMS in State Public Health Infrastructure", *Develop and implement strategies for public health data transmission to and within Washington Department of Health using CDC protocol.* Washington State Department of Health.
- 3/04-11/04 **Investigator**, "Internet Diabetes Treatment/Harborview - Web-based patient assessment of self-efficacy", *Develop and support interactive web instruments for assessing patient activation and self-efficacy, in conjunction with Harold Goldberg's project to improve patient engagement through information interventions.* Robert Wood Johnson Foundation
- 10/03-9/04 **Principal Investigator**, "Denver Wireless Public Health Reporting", *Follow on funding to previous work to enhance the prototype wireless PDA communicable disease case reporting system and support a pilot study through Denver Health.* Denver Public Health (Denver Health and Hospitals Agency).
- 9/02-8/04 **Principal Investigator**, "King County Syndromic Surveillance Information Collection", *Develop the present pilot electronic data collection system into a full population based surveillance system covering the 12 emergency departments in the county, and additional data sources.* Washington State Dept of Health
- 1/04-8/04 **Principal Investigator**, "Use of PHINMS for Poison Center Reporting", *Develop pilot electronic data collection system linking poison center organophosphate call reports with Washington Department of Health using new CDC protocol.* Washington Poison Center
- 9/02-8/03 **Co-PI**, "Kitsap County Syndromic Surveillance Information Collection", *Develop pilot electronic data collection system linking civilian and military data sources.* Washington State Dept of Health
- 3/02 – 6/03 **Principal Investigator**, "MIND Interface Development", *Develop an XML based interface to the Medical Centers' enterprise clinical data repository.* Direct plus salary support: Department of Otolaryngology/UW Medical Centers Information Systems
- 5/02-4/03 **Co-PI**, "Cancer eQOL Technical Funding for Survey Infrastructure", *Extend web based survey architecture developed for eQOL project.* UW School of Nursing Research Intramural Funding Program, Donna Berry, PI \$10K
- 9/99-12/02 **Investigator (Informatics Lead)**, "Patient Centered Tools for Regional Collaborative Cancer Care Using the Next Generation Internet", *Develop web-based tools that will demonstrate the utility of a high end infrastructure for the collaborative practice of oncology using the Next Generation Internet. I was responsible for the information systems component of the NGI work, developing collaborative tools for clinical case conferencing tumor boards,* NIH/NLM Next Generation Internet Contract
- 3/02-11/02 **Principal Investigator**, "Denver Wireless – Colorado Electronic Disease Reporting System", *Contract to extend our secure web survey infrastructure and data collection system to allow initial case reporting of communicable disease cases to the State of Colorado electronic reporting system by PDA devices over the public wireless networks.* Denver Public Health (Denver Health and Hospitals Agency).

- 5/02-11/02 **Investigator**, “Asthma Web CAMS – Web based computer assisted management:”, *Develop a web based, guidelines driven, survey tool accessible by patients from one of 3 study clinics, from their home or from a clinic. The tool makes a functional and symptom assessment, and then provides recommendations based on the clinics’ approved clinical guidelines.* Boeing Foundation.
- 1/01-8/02 **Co-PI**, “Syndromic Surveillance Information Collection”, *Develop a pilot electronic data collection system to support King County’s bioterrorism surveillance activities. Collect visit level emergency department and primary care discharge.* Washington State Department of Health
- 6/01-5/02 **Consultant**, “Quality of Life and Symptom Assessment in Radiation Oncology”. *Developed a survey architecture for collecting information on quality of life and symptom distress from patients. Deployed on a web based wireless infrastructure in the waiting room.* Oncology Nursing Society.
- 7/99 – 6/01 **Recipient (PI)**, “Image Annotation”. *Developed a domain independent annotated image authoring and display system based on Extensible Markup Language (XML), primarily intended for interactive educational applications.* NLM Extramural Applied Informatics Fellowship,

CONSULTING/NATIONAL LEADERSHIP/SERVICE

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|------------|------------------------------|---|
| 2005 - ... | Co-Editor in Chief | <i>Advances In Disease Surveillance</i> |
| 2005 - ... | Board of Directors | <i>Syndromic Surveillance Society</i> |
| 2005 - ... | Study Section | <i>R21 Grants Review Panel (recurring)</i>
National Library of Medicine/NIH |
| 2004 -... | Award Committee | <i>Davies Award Committee – Public Health</i>
Health Information Management Systems Society |
| 2004 -... | Executive Committee | <i>Open Source Working Group</i>
American Medical Informatics Association |
| 2005 | Organizing Chair | <i>4th Annual National Syndromic Surveillance Conference</i>
Syndromic Surveillance Society |
| 2005 | Scientific Program Committee | <i>Annual Symposium Fall 2005</i>
American Medical Informatics Association |
| 2004 | Study Section | <i>Bioterrorism Preparedness Special Section</i>
Agency for Healthcare Research and Quality |
| 2004 | Program Committee | <i>3th Annual National Syndromic Surveillance Conference</i>
Syndromic Surveillance Society |
| 2002 - 03 | Domain Expert - Informatics | <i>Executive Public Health Training Curriculum</i>
Public Health Informatics Institute |
| 2002 | External Advisory Panel | <i>CDC Information Council, Bioterrorism Program</i>
Centers for Disease Control and Prevention |

PUBLICATIONS (CHRONOLOGICAL)**Refereed Papers: Journals & Conference Proceedings (* original findings reported)**

1. Bey TA, Walter FG, Lober W, et. al., Loxosceles Arizonica Bite Associated with Shock, *Annals of Emergency Medicine*, 30(5):701-3, November 1997.
2. *Lober WB, Trigg LJ, Bliss D, Brinkley JM, IML: An Image Markup Language, *Proc AMIA Symp 2001*;;403-7, November 2001.
3. Lober WB, Karras BT, Wagner MM, Overhage JM, et. al., Roundtable on Bioterrorism Detection: Information Systems-based Surveillance, *Journal Am Med Informatics Assn* 9(2)105-115. Mar/Apr 2002
4. Karras BT, O'Carroll P, Oberle MW, Masuda D, Lober WB, Robins LS, Kim S, Schaad DC, Scott CS., Development and evaluation of public health informatics at University of Washington. *J Public Health Manag Pract*. 2002 May; 8(3):37-43.
5. *Karras BT, Huq S, Bliss D, Lober B: National Pharmaceutical Stockpile Drill Analysis Using XML Data Collection. *AMIA Symp 2002*; 365-91
6. *MW Barclay, S Huq, BT Karras, WB Lober, SuML: Implementation of a Multi-domain Survey Markup Language, *Assoc Survey Computing*, London England, September 2002.
7. Karras BT, Lober WB, Smith GT. Evaluating the New Electronic Disease Surveillance Systems. *Northwest Public Health*. Fall/Winter 2002, vol 19(2); p22-3.
8. *Lober WB, Trigg LJ, Karras BT, Bliss D, Ciliberti J, Stewart L, Duchin JS.. Syndromic Surveillance for Bioterrorism Using Computerized Electronic Discharge Diagnosis Databases, *J Urban Health*. 2003 Jun;80(2 Suppl 1):i97-106.
9. *Travers DA, Waller A, Haas SW, Lober WB, Beard C. Emergency department data for bioterrorism surveillance: electronic data availability, timeliness, sources and standards. *Proc AMIA Symp*. 2003;;664-8.
10. Ann Marie Kimball, William Lober, John Kobayashi, Yuzo Arima, Louis Fox, Jacqueline Brown, Nedra Floyd Paulter Reporting, Surveillance, and Information Exchange, , in *Forum on Microbial Threats: Learning from SARS: Preparing for the Next Disease Outbreak -- Workshop Summary* (2004), Board on Global Health (BGH), Institute of Medicine (IOM) Stacey Knobler, Adel Mahmoud, Stanley Lemon, Alison Mack, Laura Sivitz, and Katherine Oberholtzer, Editors, 310 pg. Jan 2004
11. Mandl KD, Overhage JM, Wagner MM, Lober WB, Sebastiani P, Mostashari F, Pavlin JA, Gesteland PH, Treadwell T, Koski E, Hutwagner L, Buckeridge DL, Aller RD, Grannis S. Implementing Syndromic Surveillance: A Practical Guide Informed by the Early Experience. *J Am Med Inform Assoc*. 2004 Mar-Apr; 11(2):141-50.
12. *Berry DL, Trigg LJ, Lober WB, Karras BT, Galligan ML, Austin-Seymour M, Martin S, Computerized Symptom and Quality of Life Assessment for Patients with Cancer: Part I – Development and Pilot Testing. *Oncology Nursing Forum*, 2004 Sep 17;31(5):E75-83.
13. *Van Eaton EG, Horvath KD, Lober WB, Pellegrini CA, Organizing the Transfer of Patient Care Information: The Development of a Computerized Resident Signout System. *Surgery* 2004;136:5-13.
14. *Lober WB, Baer A, Karras BT, Duchin JS, Collection and Integration of Clinical Data for Surveillance, *Medinfo* 2004;2004:1211-5.
15. Lober WB, Trigg LJ, Karras BT, Information System Architectures for Syndromic Surveillance, *MMWR MMWR Supplement* September 24, 2004 , 53(Suppl):203-208.
16. *Van Eaton EG, Horvath KD, Lober WB, Rossini AJ, Pellegrini CA, A Randomized, Controlled Trial Evaluating the Impact of a Computerized Rounding and Sign-out System on Continuity of Care and Resident Work Hours, *J Am Coll Surg*. 2005 Apr;200(4):538-45.

Refereed Abstracts & Posters (* original findings reported)

17. *Braun O, Lober B, et. al., Signal Processing of Ventricular Fibrillation Waveform Collected by Urban First Responders Utilizing Semiautomatic External Defibrillators, *Prehospital and Disaster Medicine*, 8(4):271, June 1993.
18. *Lober WB, Judkins DG, Age, Sex, Ethanol Levels and Helmet Use among Injured Motorcyclists, *Prehospital and Disaster Medicine*, 11(3):105, July 1996.

19. Bey TA, Walter FG, Lober W, et. al., *Loxosceles Arizonica* Bite Associated with Shock, *J of Toxicology – Clinical Toxicology*, 34(5):592 October, 1996.
20. *Lober WB, Valenzuela TD, Spaite DW, Clark LL, Prediction of Ventricular Fibrillation Survival Rate Using EMS Response Times and Estimated Intervals, *Prehospital and Emergency Care*, 1(3):166, July/September 1997.
21. *Lober WB, Bender SP, Garcia C, Reeder C, A Computerized Health Information System for Patients Waiting in the Emergency Department, *Annals of Emergency Medicine*, 32(3 part 2):223, September 1998.
22. *Lober WB, Brinkley, JF, A Portable Image Annotation Tool for Web-based Anatomy Atlases, *Proc AMIA Symp 1999*, :1108, November 1999
23. *Lober WB, Brinkley, JF, A Personal Annotated Image Server, *Proc AMIA Symp 2000*, :1068, November 2000.
24. *Lober WB, Tarczy-Hornoch P, Development Of A Multi-Axial Taxonomy For Clinical Documents, *Proc AMIA Symp 2000*, :1069, November 2000.
25. *Stewart LC, Duchin JS, Koehler J, Karras BT, Lober WB Electronic Surveillance for Bioterrorism Using Emergency Department Discharge Diagnoses Washington State Joint Conference on Health, Yakima WA, October 8-10, 2001
26. *Lober WB, Li H, Trigg LJ, Stewart BK, Chou D, Web Tools For Distributed Clinical Case Conferencing, *Proc AMIA Symp 2001*, :959 November 2001.
27. Lober WB, Lau C, Chang H, Kim Y, A Practical Lab Exercise For Teaching Medical Informatics In A Biomedical Engineering Graduate Program, *Proc AMIA Symp 2001*, :958, November 2001.
28. *Duchin JS, Lober WB, Karras BT, Trigg LJ, Syndromic Surveillance For Bioterrorism Using Computerized Discharge Diagnosis Databases, *Proc AMIA Symp 2001*, :897, November 2001.
29. *Stewart BK, Fuller SF, Ramey JA, Lober WB, et. al., Tumor Conferencing Tools for Regional Collaborative Cancer Care Using the Next Generation Internet, *Proc AMIA Symp 2001*, :836, November 2001.
30. *Bliss D, Lober WB, Trigg LJ, Karras BT, An Infrastructure for Storage and Retrieval of GEM Guidelines, *Proc AMIA Symp 2001*, :864, November 2001.
31. *Banken J, Love E, Gossett A, Lowry D, Lober WB, CISweb: Dynamically Generated Reference for a Clinical Information System, *Proc AMIA Symp 2001*, :858, November 2001.
32. *Phillips RC, Bernstam EV, Lober WB, Mork P, Karras BT, Modification of GEM to Accommodate Changes in a Classification Scheme (as presented), *Proc AMIA Symp 2001*, :994, November 2001.
33. *Lober WB, Weghorst SJ, Trigg LJ, Chou D, Ramey J, Stewart BK, An Evolutionary Approach to Implementing Augmented Reality for Clinical Case Conferencing, *MMVR Conference*, Newport Beach, CA, January 2002.
34. *Berry DL, Galligan M, Monahan M, Karras BT, Lober WB, Martin S, Austin-Seymour M. Computerized Quality of Life Assessment in Radiation Oncology, *Advancing Nurs. Pract. State of the Science Conf. Proc.*, Washington, DC, September 2002.
35. *Lober WB, Trigg LJ, Karras BT, Bliss D, Ciliberti J, Stewart Lc, Duchin JS, Syndromic Surveillance For Bioterrorism Using Automated Collection of Computerized Discharge Diagnoses, *Proc AMIA Symp 2002*, November 2002.
36. *LJ Trigg, DL Berry, BT Karras, WB Lober, Development of a Wireless Web Based Infrastructure to Support Collection of Patient Self-Reported Quality of Life & Symptom Information in a Clinical Setting, *Proc AMIA Symp 2002*, November 2002.
37. *Li H, Lober WB, Trigg LJ, Dockrey MR, Chou D, Stewart B, Iterative Development of a Web Application to Support Teleconferencing of a Distributed Tumor Board, *Proc AMIA Symp 2002*, November 2002.
38. *Kim JY, Liao J, Lober WB, Applying Social Network Analysis Techniques To Measure the Efficacy of Computerized Medication Records, *Proc AMIA Symp 2002*, November 2002.
39. *MR Dockrey, LJ Trigg, WB Lober, An Information System For 911 Dispatch Monitoring And Analysis, *Proc AMIA Symp 2002*, November 2002.
40. *MW Barclay, WB Lober, BT Karras, SuML: A Survey Markup Language For Generalized Survey Encoding, *Proc AMIA Symp*, 2002, November 2002.

41. *KM Cam, LJ Trigg, WB Lober, D Giansiracusa, MR Dockrey, BT Karras, Cancer Electronic Quality of Life Project: Delivering Wireless Web-Based Technology at the Point of Care, *Proc AMIA Symp*, 2002, November 2002.
42. *Trigg LJ, Berry DL, Karras BT, Austin-Seymour M, Lober WB. (2003) Feasibility of patient entered QoL assessment data in a radiation oncology clinic. *e-Health for All: Designing Nursing Agenda For The Future, NI 2003: Proceedings*, 8th International Congress in Nursing Informatics, Rio de Janeiro, June 20-25, 2003. E-papers Servicos Editoriais Ltd., (Rio de Janeiro, Brazil): 304-8.
43. *Payne TH, Gaster B, Mineer D, Mazurk J, Dunnington N, Zehner J, Lober B, Van Eaton E, McCormick W. Creating a Note Classification Scheme for a Multi-institutional Electronic Medical Record. *Proc AMIA Symp*. 2003;:968.
44. *Lober WB, Bliss D, Dockrey MR, Davidson AJ, Karras BT. Communicable Disease Case Entry Using PDAs and Public Wireless Networks. *Proc AMIA Symp*. 2003;:916.
45. *Lober WB, Sibley J, Zhang J, A Phased Implementation of PHINMS in a Small Automated Surveillance Application, *Connecting for the Public's Health 2004: eProceedings*, 2nd Annual Public Health Information Network Stakeholder's Conference, Atlanta, GA, May 24-27, 2004 (Accessed Nov 7, 2004 at <http://www.cdc.gov/phn/04conference/>)
46. *Rahmedov AB, Dharia AK, Jester JD, Lober WB, Using Joint Application Development to Model Information Behavior in a Gastrointestinal Research Lab, *Medinfo*. 2004;2004(CD):1824.
47. Lober WB, Wulff, JR, Rae L, Berry, DL. Usability evaluation of a patient-centered web-based information intervention. *Proceedings of the 2005 Multidisciplinary Prostate Cancer Symposium*. Orlando, Feb 17-19, 2005, p.99.
48. *Lober WB, Sibley J, Karras, BK, Applying PHINMS to Multiple-use of Poison Center Data, *Connecting for the Public's Health 2004: eProceedings*, 3rd Annual Public Health Information Network (PHIN) Conference, Atlanta, GA, May 10-12, 2004

Other Publications

1. Lober WB, Prediction of Survival in Ventricular Fibrillation Using Digital Measurement of Electrocardiogram - Amplitude, *UCSF J Medical Student Research*, 3:1(8-16), Spring 1993.
2. Lober WB, Review of "Bloch H, et. al., "Intravenous Magnesium Sulfate as an Adjunct in the Treatment of Acute Asthma", *Chest*, June 1995." *Annals of Emergency Medicine*, November 1995
3. Lober WB, Review of "Noe, M, et. al., "Mechanical Ventilation May Not Be Essential for Initial Cardiopulmonary Resuscitation", *Chest*, September 1995." *Annals of Emergency Medicine*, February 1996
4. Lober WB, Review of "Feghali NT, Prisant M, "Blunt Myocardial Injury", *Chest*, December 1995." *Annals of Emergency Medicine*, May 1996
5. Lober WB, Review of "Wardlaw, et al, "The Validity of a Simple Clinical Classification of Acute Ischaemic Stroke", *J Neurology*, March 1996." *Annals of Emergency Medicine*, August 1996
6. Lober WB, Review of "Hallstrom A, Cobb L, Yu B, "Influence of Co-morbidity on the Outcome of Patients Treated for Out-of-Hospital Ventricular Fibrillation." *Circulation*, June 1996." *Annals of Emergency Medicine*, 34(5):593. November 1996
7. Lober WB, Brinkley, JF, XML-based Image Annotation: PAIS – A Personal Annotated Image Server, *CHES/Slice of Life Conference*, Salt Lake City, UT, June 2000.
8. Lober WB, Li H, Trigg LJ, Stewart BK, Chou D, Web Tools for Distributed Case Conferencing, *Proc HIMSS*, (<http://www.himss.org/content/files/proceedings/2002/posters/ps023.pdf>), Atlanta GA, January 2002

Invited Talks/Panels/Grand Rounds

1. Current Research in Advanced Cardiac Life Support, *Emergency Medicine Grand Rounds, University of Arizona*, April 1997, Tucson, AZ.
2. Informatics in Emergency Medicine, *Emergency Medicine Grand Rounds, Madigan Army Hospital*, April 1999, Tacoma, WA.
3. Panel: Delivering Layered Images over the Web, *CHES/Slice of Life Conference*, Philadelphia, PA, June 1999.

4. XML-based Image Annotation, *MedEd 590 - Selected Topics In Medical Informatics*, Graduate Program in Biomedical and Health Informatics, School of Medicine, University of Washington, May 2000.
5. A Personal Annotated Image Server, *National Library of Medicine Training Conference*, Bethesda, MD, July 2000.
6. Database Theory and Data Interchange, *MedEd 530 - Introduction to Informatics*, Graduate Program in Biomedical and Health Informatics, School of Medicine, University of Washington, October 2000.
7. Image Annotation Strategies using XML, *Seattle XML User's Group* – Microsoft Campus, Redmond, WA, February 2001.
8. Roundtable on Bioterrorism Surveillance Systems, *American Medical Informatics Association Annual Symposium*, Washington, DC, November 2001.
9. Web Architectures and XML, *IE 499: Web Enabling Inventory Systems*, Graduate Program in Biomedical and Health Informatics, School of Medicine, University of Washington, April 2001
10. King County Syndromic Surveillance Information Collection, *CDC Public Health Preparedness Grantees B2 Workgroup Meeting*, Seattle, WA, May 2002.
11. Electronic Collection of Surveillance Data, *National Syndromic Surveillance Conference*, NY, NY September 2002.
12. Information System Based Surveillance (Organizer), *American Medical Informatics Association Annual Symposium*, San Antonio, TX, November 2002.
13. Enterprise Architectures for Access to Clinical Data, *Biomedical Research Institutions Information Technology Exchange*, Seattle, WA September 2003.
14. Secure Data Collection for Public Health, *National Syndromic Surveillance Conference*, NY, NY, October 2003.
15. Syndromic Surveillance: Performance and Utility (Panel Organizer), William B Lober, John Loonsk, Kenneth D. Mandl, J. Marc Overhage, Michael Wagner, *AMIA*, Washington DC, November 2003.
16. Next Generation Syndromic Surveillance (Panel), Kenneth D. Mandl, Michael Wagner, William B Lober, Julie Pavlin, Marc Overhage, *AMIA*, San Francisco CA, September 2004.
17. Information Systems for Patient-centered Health Care, William B. Lober, HIMSS IHE Cross-Enterprise Showcase *HIMSS*, Dallas TX, February 17, 2005

HONORS

1997	Outstanding Senior Research Project Award	<i>Univ of Arizona Section of Emergency Medicine</i>
1996	Best Resident Oral Presentation	<i>National Assoc of EMS Physicians, San Diego</i>
1995	Maria Mandell Emergency Medicine Research Award	<i>Arizona Emergency Medicine Research Center</i>
1990	Certificate of Valor	<i>State of California, Loma Prieta earthquake</i>

TEACHING

2000 - 02	Lecturer , Emergency Medicine Informatics, <i>MedEd 535 – Clinical Topics for Informaticists</i>
2001	Faculty , Clinical Informatics (3 weeks), <i>EE400B/Biomed 599D Systems Engineering / Electronic Medicine</i>
2001	Course Director , Seminar in Distance Learning and Collaborative Tools (10 weeks), <i>MedEd 598</i> ,
2001	Course Director , Seminar in XML and Data Representation (10 weeks), <i>MedEd 599</i>
1997 – 98	Faculty Mentor , Industrial Engineering course projects aimed at teaching students how to understand clinical workflow and information use in the emergency department.
1996	Lecturer , Arizona Emergency Medicine Research Center Paramedic Program

GRADUATE STUDENTS

Committees (by end date)

2004	Anand Dharia	Chair, Master's Supervisory Committee, Biomedical and Health Informatics "Using Systematic Methods to Model Information Behavior in Gastro-Intestinal Research lab"
2003	Christopher Lau	Member, Doctoral Supervisory Committee, Bioengineering "Systems and Methods for Patient-Centered e-Health Services"

Advisees (in addition to above)