CURRICULUM VITAE

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EDUCATION

Ph.D., 2000, Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign. Thesis topic concerned effects of Computer Mediated Communication on distributed learning, collaboration, problem solving, organizational memory, and community maintenance in a Community of Practice. Area of specialization was Social Informatics (design of information systems such that the technology is shaped to user needs rather than users adapting to the technology) and ethnographic techniques as methodology to inform information systems design.

M.S. L.I.S., 1996, Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign. Research assistant for national digital library initiative full text/multimedia retrieval system. Coursework involved studies of information system requirements engineering, multimedia information retrieval, and internship at the Washington University Medical Library performing assessment of educational information technology systems.

B.A., Psychology. 1984, Department of Psychology, University of Louisville, Louisville, KY. Focus on behavioral aspects of pharmacology/physiology, and automated data collection and analysis for neuroendocrine, and electrophysiology research.

INFORMATION TECHNOLOGY EXPERIENCE

Director, Information Technology Services
Director, Information Technology Security
Associate Professor of Information Systems
Kennesaw State University

8/2002-Present

Responsibilities

Lead Information Technology Services, composed of over 30 professional, technical and support staff. Responsible for strategic and tactical directions of the Networking, Software, Hardware, Help Desk, Operations, Telecommunications, Training and Technical Support Specialists. Develop university strategic goals and objectives in collaboration with CIO; facilitate interaction and communication within the department and throughout the University, maintaining an understanding of the directions of department heads and Deans across campus.

Plan and implement migration from single function stand alone servers to scalable, clustered computing technology with high availability design, disaster resistance, redundant connectivity and

avoidance of single points of failure in order to render computing like other campus utilities.

Plan and implement scaleable mass storage system, which virtualizes storage across devices using a mirrored, disaster resistant design.

Plan and implement campus authorization and authentication services based on experience with Internet2 middleware software, standards and schemas for universities. Collaborate with other state institutions to scale to state system level.

Plan and implement integrated campus wireless ensuring roaming access which functions with campus authentication standards.

Plan implementation of emerging protocols and standards such as Voice over IP, videoconference standards and Public Key Infrastructure.

Contacts with external agencies

National Science Foundation: Invited grant reviewer for National Science Digital Library, yearly since May 2001. Grants involved innovative electronic access and delivery of educational resources.

Software/Hardware: negotiate major software and hardware purchases.

Associate Director for Information Technology
Director of Information Technology Research and Development
North Carolina State University Libraries
8/2000-8/2002

Responsibilities

Lead Information Technology Division composed of 31 professional, technical and support staff. Hold administrative responsibility for the Information Systems Department, Digital Library Initiatives Department, and the server and help desk site of North Carolina Libraries for Virtual Education (NC LIVE), a statewide initiative to share electronic resources. Set directions for the information technology environment and services, ensuring that programs, services, and infrastructure are responsive to the academic needs of faculty, students, and staff of NC State. Develop strategic goals and objectives; facilitate interaction and communication within the division and throughout the Libraries.

Contacts with external agencies

National Science Foundation: Invited to be grant reviewer for Science, Mathematics and Engineering

Technology Education (SMETE) Panel, May 2001. Grants involved innovative electronic access and delivery of educational resources. Invited to review on a yearly basis.

Advisor to the Working Group on Access to and Sharing of Data Produced from Public Funding, which reports to the national Committee for Scientific and Technological Policy (CSTP) of the Organization for Economic Cooperation and Development (OECD). The Working Group is interested in a Library perspective on Scholarly Communication and its report (to CSTP and NSF staff) will inform national level information policy discussions. Collaborate with NCSU Libraries legal department to understand relevant current electronic licensing issues.

Software/Hardware: negotiated major software purchase (Metastar), which allows “single search” interface connecting to multiple databases. Responsible for variety of maintenance contracts from routers/servers/databases to site licensed personal computing software, and upgrades of all types.

Rural Internet Access Authority Technical Committee: Member of group working towards ubiquitous Internet access for North Carolina residents.

Serve as the primary liaison on information technology matters with:

- Distance Education and Learning Technology Applications division (DELTA).
- University Standards Committee: Member of committee for campus-wide information technology standards assessment to develop *secure* transparent delivery of information across campus.
- University Standards E-mail and Directory Services Subcommittee: member of committee for specific development of standards for University-wide email and directory access. Issues involve standardization of authentication and access across campus and beyond as off campus access increases. Was a leading proponent of authentication protocols proposals.
- The University's Information Technology division.
- Administrative Computing Services.
- Committee for Information Technology, Triangle Research Libraries Network (TRLN).
- The Digital Library Federation (DLF).
- The Coalition for Networked Information (CNI).

Internal Duties

Budgets: planning, allocation, and signature authority for multi-million dollar budgets of the three departments comprising the Information Technology division. Responsible for scenario-based reorganization of budgets during statewide budget reversion. Includes: server purchases and upgrades (memory, disk, clustering); network upgrades; network storage, printing and backup devices; bulk desktop purchases.

Strategic Planning: provide Information Technology division portion of long term strategic plan, NCSU Compaq Plan, Annual Report to the Chancellor, as well as Annual Report of the Libraries.

Guidance: serve on Directors Council, comprised of division Associate Directors, Vice Provost and

Director of Libraries to set directions and guide the Institution.

Serve as Liaison to Directors Council on Information Technology Advisory Committee and Web Development Team.

Collaborate with Scholarly Communication division legal staff, wrote Computer Use Policy for the Libraries.

Conduct performance appraisals for department heads in the Information Technology Division.

Select Internal Projects

Approve budget, and supervise plan for rollout of over 200 desktop computers.
Approve plan for upgrade of Windows 95, 98 and NT to Windows 2000 systems.
Institute site-wide software inventory system to ensure licensing requirements.
Approve plan for site-wide hardware inventory system.
Approve plan for site-wide for standardization of appearances of web services.

Plan and supervise installation of and training for enterprise electronic calendar for 300+ users; wrote policy on use.

Facilitate successful remedial interaction between information technology groups and the departments they serve, leading series of discussions on understanding "boundary" issues and effective communication across "borders". Initiate series of meetings using above constructs for conflict resolution and to improve interaction and perception of service.

Assume project management leadership of digital image project (which was in mid process when I arrived). Institute quality control measures, principles of project management, initiate ethnographic study of system use and begin iterative development procedure to improve functions. Trained and advised new project manager when hired, and project was completed successfully.

Rebuild, upgrade and secure development server (to Solaris 8), recreating web services such that they assumed same “look and feel” as those being developed for the rest of the site (see above).

Computer Professional
DoE Classification, Grade VI (maximum level)
Fermi National Accelerator Laboratory, Batavia IL
1990-1994

Collaborations with external agencies

Working at the facilities library, plan, coordinate and implement distributed full text delivery system. Result was second web server in the United States (see review by D-Lib Magazine at www.dlib.org/dlib/may01/05/featured-collection.html)

Collaboration involved:

- European Laboratory for Particle Physics CERN (Switzerland) developing the Hypertext Transfer Protocol.
- Stanford Linear Accelerator - SLAC (Stanford CA) providing cataloging and LaTeX to postscript conversion.
- Los Alamos National Laboratory - LANL (Los Alamos CA) storage of LaTeX preprints.

In order to index, link and provide full text electronic document delivery to the desktop using Z39.50 search interface under custom prototype web server (prior to WWW "era"). Coordinate weekly database delivery from SLAC, and automate loading with error detection/correction into DRA preprint agency. Resulting system loads 2,000 items per hour, including error correction and item rejection.

Develop and implement offsite backup procedure, utilizing Computing Division Media Vault.

Contract negotiation and software development: team leader for supervision of programming custom database format conversion and data loader for above.

Manage installation and maintenance of multiple protocol networks throughout library, coordinating with Networking Section as needed to ensure 24-hour service.
(TCP/IP, AppleTalk, XNS, BITnet, DECnet)

Collaborate with Publications Office, to advise on information flow, formatting and storage of online materials.

Collaborate with FNAL Computing Division to create standard cataloging system for Media Vault.

Chair of committee implementing cataloging and indexing standards for High Energy Physics terminology, in collaboration with the Particle Data Group, Berkeley CA.

Collaboration with Library Director and Library Planning Committee to evaluate user feature enhancements. Manage Implementation and support (in coordination with Computing Division) of TCP/IP based "patron email notices" (prior to DRA implementation). Implement Network based search "hitlist" printing to WAN print queues as well as "hitlist" emailing of results (multi protocol, prior to DRA implementation). Ensure seamless interface to user front end.

Manage maintenance and upgrade of library database software (DRA) - coordinate and supervise

these activities with DRA, Computing Division, and serve as contact between DRA technical support and library staff.

Serve as liaison with Computing Division as required to maintain, upgrade and performance tune library system servers in order to optimize for library use.

Coordinate with Personnel office and Computing Division in order to automate patron database conversion and loading.

Library Information Technology Projects

Evaluate effectiveness of database/information systems, and negotiate maintenance contracts for hardware, software and documentation, in order to effectively utilize funding. Manage repair crew during "continuous service" repair of critical server; diagnose hardware failure for repair technicians.

Evaluate user needs, negotiate hardware/software purchases, and manage installation of a variety of information services. Hardware includes locally mounted single user disk based server; 16-user CD-ROM tower server was well as remote databases. Ensure Integration into seamless interface of services from library front-end interface. Advise other National Laboratories on similar projects.

Periodically perform as staff member in circulation, reference, (less frequently in) cataloging, and acquisitions areas to obtain working knowledge of staff and patron use, in order to be aware of workflow problems and plan for future enhancements.

DRA Library Automation System Projects

Supervise staff learning of various modules. Support staff directly to ensure proficiency and understanding of module use, options, and ramifications.

Plan and implement systems backup procedure, train and supervise operator. Perform security audits.

Serve on staff committee determining various database indexing, authority, and policy matters, supervise implementation. Supervise implementation of local authority control on PAC.

Collaborate with staff (cataloging, acquisitions, etc) in order to evaluate need, implement and automate reports. Train staff in use.

Supervise annual rollover for accounting and policy file. Maintain and adjust staff security matrices, create agencies and material codes.

Plan, implement and perform database "cleanup" via automated scripting tools (tools not provided by DRA), as well as DRA supplied methods.

Plan and implement automated item inventory procedure. Manage inventory process, train and supervise interns and student assistants.

Individual Projects

Manage creation of information system documentation, to articulate system maintenance/upgrade methods.

Prepare annual report on library automation.

Database maintenance: schedule/perform re-indexing/rebuild operations for inverted file.

Design automated interaction with Bibliographic and Patron databases to correct problems with entries and manipulate records.

Implement automated procedure designed to control running and printing of periodic library reports (DRA conference presentation).
Design other custom automated programs for monthly reports.

Design custom automated client program to collect data from server, download into PC, incorporate into spreadsheet to generate reports and graphs.

Seminars

Attended variety of technical seminars (system and network security, programming, visualization/modeling, advanced networking) in order to maintain awareness of trends and coordinate integration of advanced and novel technology into "production" style system.

Supplementary Service:

- Act as division representative for facility-wide database project, managing staff training requirements and chemical storage/disposal information.
- Serve on facility wide committee planning/implementing integrated documents database.
- Act as advisor for ATLAS-L, solving technical problems for DRA discussion group.
- Participate in monthly site wide inspections, (OSHA style) for compliance with safety, electrical, structural, and sanitary procedures. Participate in OSHA training, received certification.
- Serve as a site Library Administrator for DoE Tiger Team National Laboratory investigation, act in matrix environment with Tiger Team, DoE field representatives, and Fermilab management.
- Serve as computer, chemistry, and physics reference source.
- Serve on Laboratory Self-Assessment Committee.

Conferences

DRA Annual Users conference, act as occasional invited speaker.
DECUS - National (DEC Users Society)
ONLINE/CD-ROM - National
AAAS - National (American Academy for Advancement of Science)
PC Exposition - National

Library Automation Project Manager
(Faculty style appointment)
Kenyon College, Gambier Ohio
1988-1990

Coordinating internal-to-library and external-agency projects

Serve as Information and Computing Services (ICS) representative to Libraries, in order to coordinate campus wide networking and information system integration with library building as central access point.
Coordinate with ICS and Library to ensure support and plan synchronous trajectory of computing advancements between Academic Computing, Administrative Computing, Library and campus units.

Plan, specify and supervise installation of networking, desktop and integrated library system within $500,000 library automation budget. Includes:

> Negotiate contract (collaboration with senior staff) and warranties for hardware and software. Specify and purchase mainframe; disk servers; network wiring; terminal servers; queued printers; terminals; bar codes; scanning equipment, automation system (DRA). PC hardware, programs and databases (see software list).

Advise and supervise campus system managers, technicians, and operators. Supervise and train staff, technicians and students involved in general campus computing activities.

Schedule and coordinate telecommunications installation subcontractors for wiring of building. Supervise technicians performing wiring closet setup. Initiate campus wide wiring standard.

Manage implementation of library patron file conversion and loading, coordinating with Administrative Computing Division for database transfer.

Manage vendor training of library and computing staff. Train staff in use of Public Services, Technical Services, Acquisitions, Reserve Room and Inventory programs.

Evaluate ID cards for campus; participate on committee to approve standard ID card ensuring library requirements included.

Internal Library Projects

Serve as senior staff member for libraries management.

Prepare annual report on library information technology.

Plan, implement and manage inventory control for library equipment. Supervise student and ICS technicians with inventory process.

Manage Installation and maintenance of a variety of local databases as well as dial up and networked sources (newspaper indexes, BRS afterdark, Dialog, academic index of periodicals, and government documents databases). Train users and assist staff as required.

Plan and implement networking program (pre client/server era) such that users would have access to all library functions within their home account. I.E. searches would save into home directory. Name, ID and routing address would be stored in home directory and loaded when front-end program was initiated and used when appropriate.

Serve on committee with Technical Services, Public Services and Librarian to generate RFC for system software. Member of group performing contract negotiations for library system software.

Serve on committee with Public Services, Technical Services and Audio/Visual sections to determine Policy files, borrower classes, material codes, and staff security matrices.

Plan and implement interlibrary loan module, coordinating with Technical Services. Other DRA sites adopted this program.

Conduct system specification, design, and implementation of customized automated accounting for library. Train and supervise staff in use.

Plan and implement searchable serials module and Audio/Visual module as adjunct databases, integrate into seamless user front end.

Plan and Implement circulation statistics monitoring, with graphical output of circulation and door exits, for planning staffing requirements.

Supplementary Service:

- Search Committees - Interview and evaluate applicants for the following college positions:
  Director of Libraries
  Director of Academic Computing
  Director of Networking
  Academic System Manager
  Science Librarian
  Fine Arts Librarian
  Various technical positions (computer hardware and library cataloging).
- Advise Networking Services and Academic Computing group as needed.
- Instruct faculty and staff in use of personal computers/programs (See presentations).
- Teach Structured Analysis and System Specification (see presentations).
- Act as library representative for college workgroup, which redesigned employee performance evaluation standards.
- Served on workgroup involved in increasing faculty ethnic diversity.
- Provide Kermit enhancement (national distribution through Columbia University).
- Wrote monthly informational columns for academic services newsletter.

Conferences

DRA Annual Users conferences
EDUCOM national
DECUS national
OCLC seminars (at Dublin OH facility)

Programmer/Analyst
Brown Cancer Center, School of Medicine, University of Louisville, Louisville KY
1985-1988

Collaborate with facility Director, administrators, staff and technicians to determine laboratory information system design requirements. Subsequently design, implement and manage databases related to nationwide clinical oncology quality control programs, involving 5 major medical associations (see publications).

Plan and Implement accounting and grant management system for University research and clinical laboratory. Train and supervise users.

Obtain copyright of original biochemical statistical analysis software developed for University Medical School.

Collaborate with Beckman, Laboratory Director and third party programmers on design and implementation of custom software for steroid receptor analysis.

Evaluate, purchase or program statistical software packages to generate statistical reports on laboratory research and quality control data. Train and supervise users.

Evaluate and recommend PC hardware and software purchases. Supervise staff in data conversion from obsolete systems.

Supplementary Service:

- Assist user community with access to BITnet and Internet by acting as reference source and installing/supporting various network tools.
- Assist researchers outside department with selecting appropriate statistical measures and running analysis.
- Assist new technicians with chemical analysis (steroid receptor binding statistics).

Information Analyst
(Subcontracted position)
ZML Software Systems (subsidiary of McCann Erickson)
1984-1985

Coordinate programming group and software support section in order to manage upgrade procedure for U.S. and international markets.

Initiate and implement software quality control procedures, supervise staff.

Plan and implement system for testing programmer updates in support section prior to updating to customer base.

Plan and implement "bug report" system to provide tracking of software problems and resolution.

Supervise and coordinate teams producing system documentation, edit for style, and write documentation (see publications).

Serve as contact with US export authorities for overseas software shipments.

Provide technical user support via telephone as necessary.

Supplemental Service:

- Diagnose hardware problems for various sections.
- Collaborate with and advise management on software/hardware setup.
- Collaborate with and advise purchasing department concerning efficient purchase of computer supplies.
- Advise Minicomputer section (IBM systems 34,36,38) on security.
- Plan and implement computer hardware maintenance scheduling.

TEACHING EXPERIENCE

Fermented and Distilled Beverages FSHN 495, Spring 2000 and Spring 1999, Lab instructor and lecturer. Department of Food Science and Human Nutrition, University of Illinois at Urbana Champaign.

Computer Security (graduate level). Fall 1998 and Fall 1996. Guest lecture for graduate level Telecommunications course. Graduate School of Library and Information Science, University of Illinois at Urbana Champaign.

Telecommunications (graduate level), Summer 1997. Graduate School of Library and Information Science, University of Illinois at Urbana Champaign. *Responsible for course design and instruction*.

Information Technology (graduate level), Fall 1996, Graduate School of Library and Information Science, University of Illinois at Urbana Champaign. *Responsible for course design and instruction*.

File structures and PC management. 1988-89, (in preparation for campus wide PC installation) Training series for administration, faculty and staff at Kenyon College, Gambier, OH. *Responsible for course design and instruction*.

Neuroendocrinology and affective disorders: Effects of somatic therapies on the peptide control of neurotransmitter systems. (1984) Guest Lecturer, Physiological Psychology, University of Louisville.

PRESENTATIONS

Isenhour, J. L. Protein and lipid adhesion to glass. Invited presentation at the 1999 National Craft Brewers Conference, Phoenix Arizona.

Computer Security, interactive remote wide area conference for Midwest Library System (Lewis and Clark), North Suburban Library System. Summer 1997.

Isenhour, J. L. Lambic Production. Invited presentation at the 1997 National Microbrewers Conference, Seattle Washington.

Isenhour, J. L. Automated Reporting. Presentation to the 1994 DRA user group.

Isenhour, J. L. DCL lexicals. Presentation to the 1993 DRA user group.

GENERAL COMPUTER EXPERIENCE

Mainframe and Minicomputer Hardware:
DEC VAX 64xx, 63xx, 4000, 8650, 8600, 3400, 8350, 7xx, DEC 1090, DEC PDP-11, IBM System 36, IBM System 3801 running PROFS. Some experience with CMS, TSO and MVS. Experienced in hardware repair/upgrade (memory, disk backplane, Ethernet chip, power supply, motherboard, and tape) on VAX 3400, 3100 and 8350. Familiar with tape backup devices (4mm, 8mm, 9 track) Hard disk (various) and printers -- HP LaserJet series, LN03, Talaris, and Qume 1700 (installed and configured Ethernet, memory, hard disk and software for simultaneous, TCP/IP, Decnet AppleTalk serial and parallel printing).

Servers/Workstations:
Specification and purchase of various Sun servers, including printers and X-terminals. Complete hardware/software installation and repair of Vaxstation 3100 (VMS), 3b1 (UNIX) including hardwiring

new instructions on motherboard, and HP (UNIX). Familiar with installation and maintenance of VS 2000, Decstations (Ultrix), SGI Indigo (UNIX), NeXt (UNIX), and RS600 (UNIX). Installation and configuration of HP Envizex X-Terminals, and server software.

Personal Computers:
Familiar with installation, configuration, use, and upgrade of a large variety of Pentium, 486 and 286 systems, such as Dell, Compaq, Quantex, Gateway, VAXmate, Zenith, IBM series, OCLC M3xx series, AT&T PC6300, ITT, Epson Equity, Leading Edge, etc.
Familiar with non-DOS machines such as, Macintosh, AT&T 7300, Cromemco System III, Altos 586 and 986, Apple IIe, DECmate II, AIM, CBM-64.
Familiar with various Windows/DOS portables. Familiar with evaluation and purchase of modems, CD-ROM writers/readers/single and tower servers, printers, fax boards, scanners and network technology for laboratory- and college-wide use.

GENERAL SOFTWARE EXPERIENCE

Mainframe and Minicomputer Software:
Supervise system managers and root users of research computing servers.
Install, upgrade, use, and maintain Unix and VMS and associated support programs.
Unix: OS selection and installation and upgrade on several platforms. Install, configure and upgrade TCP Wrappers, SSH, Sendmail, rmail, UUCP, quota, manage user accounts, various information servers, utilities and languages, perform backups. Rebuild system when hardware failure occurs. Install and configure TCP/IP local area network.

VMS: License Management Facility (LMF), CONDIST (DEC CD-ROM software distribution) DCL, Backup, Systartup_vX.com customization, Authorize, Sysman, Network Control Program (NCP), Local Area Transport Control Program (LATCP), sysgen, autogen, Distributed Queuing System (DQS), and other utilities as required. VMS Layered Software, i.e., Multinet (TCP/IP), Mail Exchange routing (MX), Supervisor Series, VAXnotes, and other products using VMSinstal. Also Flist, Spell, SED, Ethernet Monitor (Ethermon), Kermit, Archie, Gopher, and a variety of minor packages, X-windows ports, and NNTP newsreaders, in order to implement library information services. Also assist network group with troubleshooting.
Implemented email driven "relative disk space" comparison utility, and security monitoring for break-ins. Familiar with DCL and lexical functions used to create custom library interface (see presentations list).

Personal Computer Software:
Microsoft Office Professional Series, Lotus 123, WordPerfect, Endnote series, OCLC Prism/First, EPIC, CATme, EMACS, PC Write, Dbase III+, PCfile, MicroSoft DOS (version 1 - 5), MS-Windows (3.1, 95, 98, NT) and Kermit, Procomm and Regulation Scanning's RegScan. CD-ROM programs include Bowkers Books In Print and Out of Print, Infotrac Academic Index, Computer Selects, Census Data, Inspec, Boiler Pressure Vessel Codes, Kirk Othmer Encyclopedia of Chemical Technology, OCLC ERIC (Educational Resources National Institute of Education) Current Index to Journals in Education, PC-Sig Library and the AV-Online Database. Disk based systems include Current Contents On Disk, Research Information Systems "Reference Update". Installed and used researcher's bibliographic management software such as Procite and I.S.I. Scimate series.

NETWORKING/TELECOMMUNICATION EXPERIENCE:
Familiar with TCP/IP management and web related servers and search engines on various platforms. Design and installation of thinwire and thickwire ethernet; tapped thick wire ethernet in order to install terminal servers, including their subsequent configuration. Installation, configuration, and upgrade of VMS Multinet TCP/IP, Decnet, Local Area Transport (LAT). Installation and configuration of JNET (BITnet). Installation of newsreaders using NNTP. Installation of Logicraft Omniware 386 system to provide MS-DOS services under VMS (XNS protocol), and integrated the interface into the systems menu. Implemented Logicraft 486ware, a 16-user system. Familiar with Kermit on a wide variety of machines; experienced with a large number of terminal emulators and file transfer protocols. Installation and configuration of many types of modems.

GENERAL LABORATORY/RESEARCH EXPERIENCE

Receptor Binding Research, Medical School, University of Louisville
Neuroendocrine research, Psychophysiology Laboratory, University of Louisville
Qualitative/Quantitative Analysis, Quality Control Chemist, Borden Chemical Company

Analog controller system design and programming:
System design, wiring and troubleshooting of electromechanical controllers for "hardware" programming (i.e., connection panels, pulse formers, relays, timers, probability randomizers, steppers, alternators, latches, and counters).

Laboratory equipment:
Experience in use of automatic titration apparatus, gas chromatograph, scintillation counters, (ultra)centrifuges, spectrophotometer, Carl Fisher water determination, refractive index, viscosity meter (centipoise), alpine screen analysis (mesh size), autoclave, pH meter, drying ovens, vortex mixer, water baths, electric timers (for chemical reactions). Repair, calibration and usage of analytical pan balances.

Quality control analytical chemistry:
Conduct routine maintenance and calibration of laboratory equipment and participate in quality control "unknown" analysis. Conduct raw material testing, mid-production product quality specification, and finished product analysis for wide range of products (polymer adhesives/plastics).

Microsurgery and anesthesia:
Encannulation of carotid artery for blood pressure measurement, perfusion and serum collection from rodents. Cerebral and macroscopic verification of icv injection sites (see publication list), as well as some experience with frozen tissue sectioning (cryostat). Small animal anesthesia using ketamine, barbiturates, and ether.

ICV injection device:
Devise an intracerebroventricular injection device for use when encannulation is impractical. [see publication list]

Dexamethasone suppression of corticosterone during learned helplessness training:
Complete responsibility for research design, radiolabeled steroid competitive binding assay (not from kit), corticosterone preparation, tissue collection and preparation, concocting scintillation cocktail, florosil refinement and analytical measurement, scintillation counts, and computerized statistical data analysis.

Receptor binding in cancer tissue:
Trained in assay data collection in clinical laboratory with estrogen and progestin receptor binding assay kit.

Polypeptide antibodies and memory retention:
Collaborative research effort involving development of Intracerebroventricular (icv) injection device, reconstitution of antibodies, operation of passive avoidance apparatus, rodent anesthesia and icv injections [see publication list].

Evoked potentials (EEG, broca's area) during phoneme perception:
Prepare electrophysiology materials including square wave signal channel tests, application of electrodes, instructions to human subjects (children), and guiding computer control of stimulus presentation. Design tongue electrodes for use by children. Work acknowledged in dissertation.

Learning and conditioned emotional response (CER) in anxiolytic and antipsychotic drug states: Assist in development of computer controlled training device for rodents used for evaluating new pharmaceuticals.

PUBLICATIONS

Isenhour, J. L. (2001). The Culture of Lambic. Zymurgy, vol. 26, no. 5, pp. 36-38

Isenhour, J. L. (1989). A Sterile Transfer Technique for Pure Culturing. Zymurgy, Special Issue vol. 12, no. 4, pp. 36-38

Isenhour, J. L. (1988-89). MS-DOS Management Techniques. Academic Computer Services Newsletter. Series of technical monographs on IBM-PC/compatible operating systems. Kenyon College Information and Computing Services.

Isenhour, J. L. (1988). Yourdon Analysis and System Specification. Academic Computer Services Newsletter. Kenyon College Information and Computing Services.

Wittliff, T. H., Gerczak, M. M., Isenhour, J. L., Ross, D. E., and Wittliff, J. L. (1988). Intra- and interlaboratory quality control measures for the determination of steroid hormone receptors. Abstract, Chemical Ligand Society, Washington, D.C.

Isenhour, J. L. & Smiley, J. (1987). Scatchard analysis of hormone receptor binding for Apple II series computers. Copyright 1987 - Hormone Receptor Laboratory, Department of Biochemistry, School of Medicine, University of Louisville, Louisville, Ky.

Wittliff, T. H., Isenhour, J. L., Ross, D. E., Hogancamp, W. E., & Wittliff, J. L. (1987). Quality assurance programs for predictive tests used in cooperative clinical trials of breast and endometrial cancer. Abstract, 15th International Congress of Chemotherapy, Istanbul, Turkey.

ZML Software Systems (1985). AdWare Micro User Manual. Chapter 9 - Database Control (Security Access, Utilization Logs, Report Generation and Message Parsing), Appendix B 11 - Hardware and Software Maintenance and Care of Magnetic Media, and Appendix B 12 - System Security Procedures.

Leccese, A. P. & Isenhour, J. L. (1983). Intraventricular administration of anti-vasopressin serum inhibits retention in mice. Peptides, 4, 265-267.

CURRENT AFFILIATIONS

American Association for the Advancement of Science
The New York Academy of Sciences
American Library Association
American Society of Brewing Chemists
Master Brewers Association of the Americas
Institute for Brewing Studies

JOHN L. ISENHOUR
Professional References

Geoffrey Bowker, Ph.D.	Professor, Department Chair Department of Communication University of California, San Diego 9500 Gilman Drive La Jolla, CA 92093-0503 (858) 534-4410 bowker@ucsd.edu
Vince Patone	Manager of Instructional Technologies Graduate School of Library and Information Science University of Illinois at Urbana Champaign 501 E. Daniel St, Champaign IL 61820 (217) 244-9555 patone@uiuc.edu
L. Scott Ross	Administrator, Operations Manager North Carolina Libraries for Virtual Education (NC LIVE) Box 7111 North Carolina State University Raleigh NC, 27695 (919) 513-3258 scott_ross@ncsu.edu www.nclive.org

Further references available on request