

## MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with letter dated December 13, 1996	
1. Department of Veterans Affairs V.A. Medical Center		3. License number 35-00526-04 is amended in its entirety to read as follows:	
2. 921 Northeast 13th Street Oklahoma City, Oklahoma 73104		4. Expiration date August 31, 2003	
		5. Docket or Reference No 030-02873	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Any byproduct material with Atomic Numbers between 1-83, inclusive, except as specified below	A. Any, other than sealed sources	A. 500 millicuries of each radionuclide with a total possession limit of 10 curies.	
B. Molybdenum-99	B. Any	B. 200 curies	
C. Technetium-99m	C. Any	C. 200 curies	
D. Iodine-125	D. Any	D. 5 curies	
E. Iodine-131	E. Any	E. 5 curies	
F. Hydrogen-3	F. Any	F. 1 curie	
G. Americium-241	G. Sealed sources registered pursuant to 10 CFR 32.210 or an Agreement State	G. No single source to exceed 50 millicuries. Total possession not to exceed 1 curie	
H. Any byproduct material with Atomic Numbers between 1-83, inclusive	H. Sealed sources registered pursuant to 10 CFR 32.210 or an Agreement State	H. No single source to exceed 1.5 curies. Total possession not to exceed 10 curies	

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

35-00526-04

Docket or Reference Number

030-02873

Amendment No. 24

## 9. Authorized use

- A. through H. Medical diagnosis, therapy, and research in humans. Research and development as defined in Section 30.4 of 10 CFR Part 30, animal studies, and student instruction. Calibration of licensee's instruments.

## CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 921 Northeast 13th Street, Oklahoma City, Oklahoma.
11. The use of licensed material in or on humans shall be by a physician, dentist, or podiatrist as defined in 10 CFR 35.2.
12. Physicians, dentists, or podiatrists designated to use licensed material in or on humans shall meet the training criteria established in 10 CFR 35, Subpart J and shall be designated by the licensee's Radiation Safety Committee, Kenneth Blick, Ph.D., Chairman.
13. Licensed material for other than human use shall be used by or under the supervision of individuals designated by the Radiation Safety Committee, Kenneth Blick, Ph.D., Chairman.
14. The Radiation Safety Officer for this license is Robert Y.L. Chu, Ph.D.
15.
  - A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
  - B. Notwithstanding Paragraph A of this Condition, sealed sources and detector cells designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
  - C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
  - D. Sealed sources need not be leak tested if:
    - (i) they contain only hydrogen-3; or
    - (ii) they contain only a radioactive gas; or

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

35-00526-04

Docket or Reference Number

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Amendment No. 24

- (iii) the half-life of the isotope is 30 days or less; or
- (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
- (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

E. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Radiation Safety and Safeguards. The report shall specify the source involved, the test results, and corrective action taken.

F. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to Perform such services.

- 16. Maintenance, repair, cleaning, replacement, and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.
- 17. Detector cells containing a titanium tritide foil or a scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents the foil temperature from exceeding that specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.
- 18. The licensee shall conduct a physical inventory every 3 months to account for all sources and/or devices received and possessed pursuant to 10 CFR 35.59, 10 CFR 35.400 and 10 CFR 35.500 and every 6 months for all other sources and/or devices.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

35-00526-04

Docket or Reference Number

030-02873

Amendment No. 24

19. Notwithstanding the requirements of 10 CFR 35.49(a) and (b), 10 CFR 35.100, 10 CFR 35.200, 10 CFR 35.300, 10 CFR 35.400, and 10 CFR 35.500, the licensee may use for any medical use any byproduct material or reagent kit. The licensee shall possess and use byproduct material for medical use in accordance with the prescriptive and performance criteria in the other sections of 10 CFR 35. This does not relieve the licensee from complying with applicable United States Food and Drug Administration (FDA) and other Federal and State requirements.
20. The licensee shall possess and use byproduct material for human research use in accordance with the prescriptive and performance criteria in all sections of 10 CFR Part 35 except Sections 35.49(a) and (b), 35.100, 35.200, and 35.300.
21. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
22. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days for decay-in-storage before disposal in ordinary trash provided:
- A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.
  - B. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
  - C. Generator columns shall be segregated so that they may be monitored separately to ensure decay to background levels prior to disposal.
  - D. A record of each disposal permitted under this License Condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
23. The licensee is authorized to hold sulfur-35 for decay-in-storage before disposal in ordinary trash provided that:
- A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.



MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

35-00526-04

Docket or Reference Number

030-02873

Amendment No. 24

- B. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
- C. A record of each disposal permitted under this License Condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the survey.
24. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
25. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
26. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the limits specified in 10 CFR 30.72 which require consideration of the need for an emergency plan for responding to a release of licensed material.
27. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of unsealed licensed material to quantities less than  $10^5$  times the applicable limits in Appendix B of 10 CFR Part 30 as specified in 10 CFR 30.35(d).

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

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35-00526-04

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Amendment No. 24

28. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated February 9, 1990
- B. Letter dated April 7, 1993
- C. Letter dated July 12, 1993
- D. Letter dated August 27, 1993
- E. Letter dated January 14, 1994
- F. Letter dated March 7, 1994
- G. Letter dated August 10, 1994
- H. Letter dated December 19, 1994
- I. Letter dated June 21, 1995
- J. Letter dated December 13, 1996

Date JAN 27 1997

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

By

*Vivian H. Campbell*  
Vivian H. CampbellNuclear Materials Licensing Branch  
Region IV  
Arlington, Texas 76011



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

January 27, 1997

Department of Veterans Affairs  
ATTN: Steven J. Gentling, Director  
921 Northeast 13th Street  
Oklahoma City, Oklahoma 73104-5028

SUBJECT: LICENSE AMENDMENT

Please find enclosed License No. 35-00526-04. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license at 817-860-8143.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public which can result from failure to comply with NRC requirements, you must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purpose(s) indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).
5. Request and obtain written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested and obtained for any other planned changes in your facility or program that are contrary to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. A license fee may be charged for the amendments if you are not in a fee-exempt category.

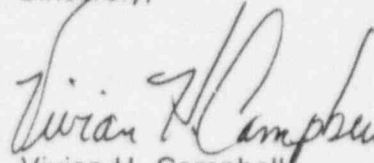
6. Maintain in a single document decommissioning records that have been certified for completeness and accuracy listing all the following items applicable to the license:
  - Onsite areas designated or formerly designated as restricted areas as defined in 10 CFR 20.3(a)(14) or 20.1003.
  - Onsite areas, other than restricted areas, where radioactive materials in quantities greater than amounts listed in Appendix C to 10 CFR 20.1001-20.2401 have been used, possessed, or stored.
  - Onsite areas, other than restricted areas, where spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site have occurred that required reporting pursuant to 10 CFR 30.50(b)(1) or (b)(4), including areas where subsequent cleanup procedures have removed the contamination.
  - Specific locations and radionuclide contents of previous and current burial areas within the site, excluding radioactive material with half-lives of 10 days or less, depleted uranium used only for shielding or as penetrators in unused munitions, or sealed sources authorized for use at temporary job sites.
  - Location and description of all contaminated equipment involved in licensed operations that is to remain onsite after license termination.
7. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
8. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the "General Statement of Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy), 60 FR 34381, June 30, 1995.



Thank you for your cooperation.

Sincerely,

A handwritten signature in cursive script, appearing to read "Vivian H. Campbell".

Vivian H. Campbell  
Senior Health Physicist  
Nuclear Materials Licensing Branch

Docket: 030-02873  
License: 35-00526-04  
Control: 466285

Enclosures: As stated

JAN 27 1997

Department of Veterans Affairs

-4-

DOCUMENT NAME: P:\VAOKC.MLC

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

RIV:NMLB		RIV:					
VHCampbell	<i>NH</i>						
1/27/96							

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(FOR LEMS USE)  
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

Program Code: 02110  
Status Code: 0  
Fee Category: Ex 7B  
Exp. Date: 20030831  
Fee Comments:  
Decom Fin Assur Regd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: V. A. DEPARTMENT OF  
Received Date: 9/19/97  
Docket No.: 3002873  
Control No.: 466285  
License No.: 35-00526-04  
Action Type: Amendment

2. FEE ATTACHED

Amount:  
Check No.: 1

3. COMMENTS

Signed Laura Smiley  
Date 11/27/97

8. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /\_/\_/)

1. Fee Category and Amount: \_\_\_\_\_

2. Correct Fee Paid. Application may be processed for:

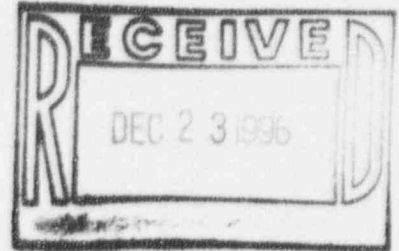
Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_

Signed \_\_\_\_\_  
Date \_\_\_\_\_



DEPARTMENT OF VETERANS AFFAIRS  
Medical Center  
921 Northeast 13th Street  
Oklahoma City OK 73104-5028



In Reply Refer To:

December 13, 1996

United States Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, Texas 76011-8064

Attn: Mr. Jack E. Whitten

thru: Milton D. Gross, M.D.  
Department of Veterans Affairs  
Office of the Program Director  
Nuclear Medicine Service (111E)  
24 Frank Lloyd Wright Drive  
P.O. Box 505  
Ann Arbor, MI 48106

RE: License No. 35-00526-04

Dear Mr. Whitten:

For your information a new chairman, Kenneth Blick, Ph.D. has selected for the Radiation Safety Committee.

Enclosed is Dr. Blick's curriculum vitae.

Sincerely,

FOR AND IN THE  
ABSENCE OF *Steven J. Gentling*  
STEVEN J. GENTLING  
Director

cc: Chief of Staff (11)

466285



University of Oklahoma, College of Medicine  
University of Oklahoma Health Sciences Center  
Department of Pathology



## CURRICULUM VITAE

Date of Preparation: April 1996

### I. Personal Data:

Name:	Kenneth E. Blick
Social Security Number:	316-46-4344
Birthdate:	June 1, 1944
Birthplace:	Bluefield, West Virginia
Marital Status:	Married, Helen Veda, 1969
Children:	David (12-28-72) Sharon (3-30-75) Brian (1-21-82)
Residence:	3001 Broken Bow Road Edmond, Oklahoma 73034
Telephone:	405/340-8401 (home) 405/271-7632 (work)

### II. Education:

1970-71	One Year Postdoctoral Study, University of Kentucky
1966-70	Ph.D., University of Kentucky Major: Inorganic Chemistry/Analytical Spectroscopy
1962-66	B.S., Western Kentucky University

466285

### III. Professional Experience:

#### A. Academic

1985-present	Tenure	Department of Pathology,
1984-present	Associate Professor	University of Oklahoma
1982-1984	Assistant Professor	Health Sciences Center, Oklahoma City, Oklahoma
1982-present	Adj. Assistant Professor	Department of Medical Technology, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma
1984-Present	Associate Professor	Graduate College,
1983-1984	Assistant Professor	University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma
1984-present	Adj. Assistant Professor	Department of Dermatology University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma
1978-1982	Assistant Professor	Department of Medical Technology, Indiana State University and Deaconess Hospital, Evansville, Indiana
1975-1978	Assistant Professor	Department of Allied Health, Midway College/Central Baptist Hospital, Lexington, Kentucky
1971-1975	Chairman and Assistant Professor	Division of Physical Sciences and Related Technologies, University of Kentucky, Prestonsburg, Kentucky
1971-1975	Senior Research Assoc.	Department of Chemistry, University of Kentucky, Lexington, Kentucky
1972-1974	Chairman, Faculty Assembly and College Board Member (Faculty Representative)	University of Kentucky, Prestonburg, Kentucky

B. Hospital

1982-present	Medical Staff	University Hospital; Children's Hospital of Oklahoma Veterans Administration Medical Center, Oklahoma City, Oklahoma
1982-present	Director, Laboratory Computer Systems	The University Hospitals, Oklahoma City, Oklahoma
1982-present	Director, Laboratory Support Services	University Hospital, Oklahoma City, Oklahoma
1982-present	Director, Endocrinology/ Radioimmunoassay	University Hospital, Oklahoma City, Oklahoma
1982-present	Associate Scientific Director, Adult Clinical Chemistry	The University Hospitals, Oklahoma City, Oklahoma
1978-1982	Medical Staff	Deaconess Hospital Department of Pathology Evansville, Indiana
1978-1982	Director, Clinical Chemistry & Coordinator of Laboratory Computeri- zation	Department of Pathology, Deaconess Hospital, Evansville, Indiana
1975-1978	Director, Clinical Laboratory Research and Computer Development; Chief, Clinical Chemistry	Pathology and Cytology Laboratories, Inc. and Central Baptist Hospital, Lexington, Kentucky
1972-1975	Director, Computer Pro- gramming and Statistics	Cardiopulmonary Lab, Highland Regional Medical Center, Prestonsburg, Kentucky; Cardiopulmonary Associates, Prestonsburg, Kentucky

IV. Military Experience: None

V. Certification or Board Status:

1966-present	Certified Chemist	American Chemical Society
1979-present	Diplomate	American Board of Clinical Chemistry

VI. Licensure: Isotope minilicense for in vitro testing, NRC #83H04

## VII. Memberships and Honors:

### A. Professional and Scientific Memberships

1966	American Chemical Society
1976	American Association for Clinical Chemistry
1978	Central Indiana Biochemistry Forum
1979	Critical Care Society
1982	Medlab Users Group
1983	Clinical Laboratory Management Association
1983	Chairman, Division of Laboratory Information Systems; American Association for Clinical Chemistry
1984	Association of Clinical Scientists
1985	The Society of Sigma Xi, University of Oklahoma Health Sciences Center.
1989	President, Texas Section of the American Association for Clinical Chemistry
1990	Oklahoma Transplant Society
1991	Oklahoma State Association of Pathologists, Inc.
1993	The Honor Society of Phi Kappa Phi, University of Oklahoma

### B. Honors

1966	Who's Who in American Colleges and Universities
1972	Great Teacher Award
1985	Nominated to "Who's Who in Frontiers of Science and Technology", Marquis Who's Who
1990	Who's Who of American Business Leaders
1991	Who's Who In the South and Southwest
1991	"I Care" award, Oklahoma Medical Center

### C. Awards

Postdoctoral Fellowship, Project Themis, University of Kentucky, 1970.

Unsung Hero Award, Dept. of Pathology Teaching Programs, 1992.

### D. National Offices

Chairman, Texas Section of AACC, 1991  
Chairman, Laboratory Information System Division, AACC, to July, 1991.  
Secretary, Laboratory Information System Division, AACC, July to Present  
Chairman, Southeast Region, Medlab Users Group, Newsletter Editor.



## VIII. Teaching Activities:

### A. Course Participation

#### 1. Oklahoma City Campus

##### Medical Students

##### 1990-96 Clin Path Elective Course 8412

- a. Analytical Techniques
- b. Managing Lab Data - Computers
- c. Immunoassay
- d. Hepatic/Endo. Cases

##### 1983-89 Path 5205 - Systemic Pathology/Laboratory Medicine

- a. January to May - 60 contact hours
- b. January to May - Served as Faculty in Laboratory Medicine and coordinated Laboratory Medicine Lectures to Medical Students along with Lab Modules on the following:
  - 1) Electrolytes and Blood Gases

##### 1983-87 Path 5105 EPD Course

- a. August to December 1983 - 25 contact hours
- b. August to December 1984 - 28 contact hours
- c. August to November 1985 - 10 contact hours
- d. August to December 1986 - 20 contact hours
- e. August to December 1987 - 22 contact hours
- f. August to December 1988 - 22 contact hours
- g. August to December 1989 - 24 contact hours
- h. August to December 1990 - 16 contact hours

##### 1982-83 Path 5402 - Clinical Chemistry Conference

Basic Spectroscopy, September 28, 1982

Tumor Marker Assays, April 1982

Characteristics and Utility of Various Computer Programming Languages, March 22, 1983

##### 1983-84 Path 5402 - Clinical Chemistry Conference

Intact PTH and Its Fragments in Calcium Metabolism Disorders, May 15, 1984

Review of CK/LD Cardiac Profiles, October 25, 1983

RIA/Endo Immunolinked Assays, December 26, 1983 - January 1, 1984

##### 1983 - Path 5971 - Graduate School

Taught (with Professor R.B. Passey) special readings course entitled "Physical Chemistry for the Medical Sciences".

##### Residents

1983-95

##### Conferences

Lab Computers, Fall - Session 1

Lab Computers, Fall - Session 2

RIA/Endocrinology Immunolinked Assays, Fall-Session 1  
Endo-Immunolinked Assays, Spring - Session 1  
Lab Computers, Spring - Session 1  
Lab Computers, Spring Session 2  
Medlab Computer, Fall  
Medlab Computer, Spring  
Hepatitis, Spring  
Hepatitis, Fall

- 1982-90- College of Health, Medical Technology Program  
 CLS 4001 Thyroid, Spring, 1983 thru 1990  
 CLS 4001 Blood Gases and Electrolytes, Spring, 1984 - 1990  
 CLS 4001 Endocrine/Thyroid, Spring, 1984 - 1990  
 CLS 4002 Clinical Chemistry II Course  
 Ligand Assays, RIA, Spring, 1983, 1984, 1985  
 Ligand Assays, RIA, Spring, 1983, 1984, 1985  
 Laboratory Computers, Fall 1982, Spring, 1983, 1984, 1985, 1990  
 Lab Computer and Computer Programming Workshop, 1983, 1984, 1985, 1986  
 CLS 4271 The Relationship of Computers and Management in a Modern Clinical Laboratory, Fall 1982, 1983, 1984, 1985  
 Endocrinology of Reproduction, Spring 1983, 1984, 1985  
 Lab Computers and Management 1983, 1984, 1985, 1986.  
 Chemistry 4011 (with K.M. Parker)  
 CLS 4262 MIS and Use of Computers in the Lab, 1991
- 1991 - College of Health, Medical Technology & Cytotechnology Program  
 Topics in Clinical Chemistry and Clinical Laboratory Administration, Spring 1991, Fall 1991.
- 1992 - College of Health, Medical Technology & Cytotechnology Program  
 Topics in Clinical Chemistry, Clinical Laboratory Administration, and Lab Information Systems, Spring 1992, Fall 1992.
- 1993 - College of Health, Medical Technology & Cytotechnology Program  
 Topics in Clinical Chemistry, Clinical Laboratory Administration, and Lab Information Systems, Spring 1993.
- Summer Lab Computer Course - Spreadsheets, data base; theory of spreadsheet.
- Topics in Clinical Chemistry and Lab Information Systems, Fall 1993.

- 1994-      College of Health, Medical Technology & Cytotechnology Program  
Topics in Clinical Chemistry, Clinical Laboratory Administration, and Lab Information Systems, Spring 1994.
- Summer Lab Computer Course - Spreadsheets, data base; theory of spreadsheet.
- Topics in Clinical Chemistry and Lab Information Systems, Fall 1994.
- 1995-96      The University Hospitals, Medical Technology Program  
Topics in Clinical Chemistry, Clinical Laboratory Administration, and Lab Information Systems
- Topics in Clinical Chemistry and Lab Information Systems.
2.      Indiana State University/Deaconess Hospital, Evansville, Indiana
- 1978-1982      -      Responsible for one-half of the lectures in Clinical Chemistry in the Medical Technology (A.S.C.P.) Program
- 1978-1982      -      Responsible for chemistry laboratory training in Medical Technology Program
- 1978-1982      -      Responsible for rotation training in Clinical Chemistry for family practice residents, nursing students and respiratory therapy students.
3.      Midway College/Central Baptist Hospital
- 1975-1978      -      Taught a course each year in Clinical Chemistry in the Medical Laboratory Technician Program
4.      University of Kentucky (at Prestonsburg) and Main Campus at Lexington, Kentucky
- 1971-1975      -      Responsible for organization and teaching of all laboratory courses in chemistry including inorganic, analytical and organic chemistry
- 1971-1975      -      Responsible for lectures in two sequences of inorganic (Chem 110 and 112 and Chem 106 and 108) and two sequences of organic chemistry (Chem 230 and 232)
- 1971-1975      -      Lectures in chemistry laboratory recitations in Chem 115
- 1971-1975      -      Responsible for the direction of five member research group (summers only) performing chemistry research

B. Other Teaching Activities

1. On Oklahoma City Campus

Residents and Graduate Students

- 1982-1983 - Postdoctoral Training: James Southern, Ph.D., M.D., David Ring, M.D., Salima Ahmad, M.D., Maria Ochoa, M.D., Joni McClain, M.D., Jim Jones, M.D.
- 1983-1984 - Postdoctoral Training: Anna Randall, M.D., Evancia Sy, M.D., Gene Fuller, M.D.
- 1985-1986 - Path Resident Training: in RIA/ENDO, Computers, Phlebotomy, and Management. Salima Ahmad, 50 hours, Maria Ochoa, 50 hours, Joni McClain, 50 hours, Jim Jones, 50 hours, Anna Randall, 50 hours, and Gene Fuller, 50 hours.
- Resident Training: Sammy Saleeb; training in Radioimmunoassay/Endocrinology Lab.
- 1987-1988 - Resident Training: Vijay Trevidi, training in Radioimmunoassay/Endocrinology Lab.
- 1988 - Resident Training: Jim Smith, M.D., training on laboratory computer systems and microcomputers. 40 contact hours.
- 1989 - Resident Training: Tanaz Sharma, M.D., training in Radioimmunoassay/Endocrinology Lab. 16 contact hours.; computer training for all 6 pathology residents.
- 1989 - Medical Student Training: Clinical Pathology Rotations Elective #8412 for RIA/Endo Training for John Perry (2 hours), Christie Snow-Tahsuda (2 hours), and Vickie Lampley (2 hours).
- 1989 - Summer Research Student Project, Sameh Melouk, Cyclosporin Research.
- 1990 - Resident Training: Drs. Alexander, Ahmad, Kingma, Holmquist, Granger, Sharma. Training in Radioimmunoassay/Endocrinology Lab.
- 1991 - Medical Student Training: Clinical Pathology Rotations for Endo/Immunoassay Training - Marcia Bourgeois, Sheila Lynam, Wanda McMichael, Greg Stamps, Robert Leonard, Wynter Stratton, John Hennessee
- 1991 - Medical Student Instruction: "Venipuncture, Peripheral Smear, and Dry Chemistry Analyzer", November 1991.



- 1991 - Medical Student Lectures: Pathology and Laboratory Medicine second year students "Hyperlipidemias" and "Cardiac Enzymes".
- 1992 Medical Student Training: Clinical Pathology Rotations for Endo/Immunoassay Training - Julie Gilmour, Doris Balsem-Hoffman, Evette Budrich, Ronald Swift, Spender Stour, Yodit Keflemarian, Dean Deason and Amy Nelson.
- 1993 - Resident Training: Drs. Stepanek, Foresberg, Dietrich, Lastrapes, McCormick and Ezgi. Training in Radioimmunoassay/Endo Lab; Computer Training.
- 1994 - Resident Training: Drs. Malahy and Lynam, Training in Radioimmunoassay/Endo Lab; Computer Training.
- 1995 - Resident Training: Drs. Turner, Littlejohn, Markland and O'Dell. Training in Radioimmunoassay/Endo Lab; Computer Training.
- 1996 - Resident Training: Drs. Brantley and Irwin. Training in Radioimmunoassay/Endo Lab; Computer Training
- 1996 - Resident Training: Dr. John Hamlin, Radiology Resident. Rotation in Radioimmunoassay and other immunoassay techniques.

#### Core Pathology

Laboratory Computer, 4 hours lecture, July 1984.  
Specimen Procurement and Processing and Referral Testing, July 1985.  
Developed and taught "Symposium on Laboratory Computers", eight pathology residents attended, 23 hours of lecture with handouts and assignments, January through February 1985.

#### Graduate Advisor

David Richards, 1984, 1985.

1. Training in Radioimmunoassay, Fall 1984, PATH 6990  
Research Topic: Agarose Gel Electrophoresis Patterns of Isoenzymes of Candida Albicans.

Clayton Fuller, 1984, 1985, 1986.

2. "Special Problems in Pathology", PATH 6990.
2. On Indiana State University Campus (Evansville)  
1980-1982 - Graduate Training: Timothy Dick
3. On University of Kentucky Campus  
1977 - Doctoral Training: D.P. Emerick (in Chemistry)

## IX. Research

### A. Grants and Contracts

#### Focus

1. Applications of Data Processing in the Hospital Laboratory
2. Tumor Marker Assays Using Radioimmunoassay.
3. Coagulation Markers by RIA

#### 1. Research

##### Funded Research Projects

###### Principal Investigator:

Kenneth E. Blick, Ph.D.

"An Experimental Evaluation of Prostatic Acid Phosphatase by Radioimmunoassay - Phase I, Tumor Marker Assays", Fraternal Order of Eagles, Aerie 427. Requested January 1979, Funded January 1980, \$8,000.

###### Principal Investigator:

Kenneth E. Blick, Ph.D.

"A Clinical Evaluation of Prostatic Acid Phosphatase by Radioimmunoassay for the Detection of Prostatic Cancer - Phase II, Tumor Marker Assays", Fraternal Order of Eagles, Aerie 427 and Deaconess Hospital Foundation, Evansville, Indiana. Requested August 1980, Funded January 1981, \$8,000.

###### Principal Investigator:

Kenneth E. Blick, Ph.D.

"A Proposal to Study the Impact of Continuously Available Lidocaine Measurements on Coronary Care in a Community Hospital Setting", Max Baer Heart Fund, FOE, Midwest Region. Submitted July 1981, Funded April 1982, \$9,000.

###### Principal Investigator:

Fletcher B. Taylor, M.D.

###### Co-Investigator:

Kenneth E. Blick, Ph.D., et al.

"Thrombin Protection Against Endotoxin Shock and Its Relationship to Cortisol Levels in Dogs", Funded through NIH #7PO1HL30073-01, extended through September 30, 1983.

###### Principal Investigator:

Kenneth E. Blick, Ph.D.

"Division for Laboratory Information Systems" to the American Association for Clinical Chemistry, Three year provision period. Project approved for \$8,200 beginning January 1, 1984.

###### Principle Investigator:

Kenneth E. Blick, Ph.D.

"Computer Programs for the Clinical Laboratory Statistics for the IBM RT", Awarded 1986, 1987 \$75,000, International Business Machines, Corporation.

Principle Investigator: Philip Comp, M.D.  
Co-Investigator: Kenneth E. Blick, Ph.D.

"Drug Influences on Fibrinogen, FDP, and Plasminogen", funded through Burroughs Wellcome Co., 1986, 1987 \$10,000.

Principle Investigator: Steven M. Barrett, M.D.  
Co-Investigator: Kenneth E. Blick, Ph.D.

Investigation of Brown Recluse Spider Bite Envenomation, funded by small grant award, University of Oklahoma Health Sciences Center. Awarded 1988, \$10,000.00

Principle Investigator: Kenneth E. Blick, Ph.D.  
Co-Investigator: Henry D. Fry, NT

Sleep Growth Hormone Studies for the Evaluation of Basal Pituitary HGH Production, funded by Eli Lilly, Awarded 1988, ongoing 1989 \$15,000.

Principle Investigator: Kenneth E. Blick, Ph.D.

Artificial Intelligence to Reduce Raw Laboratory Data from Automated Analyzers to an Interpretive Report, funded by Department of Commerce and Department of Pathology, University of Oklahoma Health Sciences Center, \$4,000, funded 1988.

Principle Investigator: Phillip C. Comp, M.D.  
Co-Investigator: Kenneth E. Blick, Ph.D.

Laboratory Evaluation of Thrombotic Risk of Tri-Phase Versus Conventional Oral Contraceptive Therapy, funded by Ortho, \$35,000, 1988.

#### Pending Research Grants

Principle Investigator: Kenneth E. Blick, Ph.D.

"Computer Assisted Interpretation of Raw Laboratory Data", submitted to the Department of Health and Human Services in January 1987, \$5,000.

Principle Investigator: Fletcher B. Taylor, M.D.  
Co-Investigator: Kenneth E. Blick, Ph.D.

Protection From Endotoxin Shock by Activated Protein C", Submitted to the Department of Health and Human Services, February 1985, \$255,188.

Principal Investigator: Kenneth E. Blick, Ph.D.

"A Proposed Comprehensive Laboratory Computer System for Anatomic Pathology", to Department of Health and Human Services, Submitted November 1983, \$500,000, not funded.

Co-Principal Investigators: Kenneth E. Blick, Ph.D. and  
Richard B. Passey, Ph.D.

"Biochemical Markers Laboratory to Evaluate Renal Function in Three Hydrocarbon Exposure Cohorts: 1) Acute High Dose Exposure, 2) Chronic High Dose Exposure and 3) Chronic Low Dose Exposure", American Petroleum Institute, submitted October 1983, five year program \$661,845. Rejected, resubmitted 1985.

Principal Investigator:

Kenneth E. Blick, Ph.D.

"The Development and Implementation of a Comprehensive Cost Efficient Computer Management System for Hospital Pathology Services Program for Research and Development of Health Care Costs", The Robert Wood Johnson Foundation, Submitted July 1983. Funding requested \$513,990. (Rejected, October 1983.)

Principle Investigator:

Kenneth E. Blick, Ph.D.

"An Assessment of Early Clotting Activity of Nonheparinized Placental Blood Using Radioimmunoassay for Beta-Thromboglobulin", Research Council, OUHSC, Small Grant Award. Submitted August 1982, not funded. Funding requested \$3,000. (To be resubmitted).

Principal Investigator:

Pankaja S. Venkataraman, M.D.

Co-Investigators:

Kenneth E. Blick, Ph.D. and

Mary Ann McCaffree, M.D.

"Circadian Rhythms for Serum Calcium (Ca), Magnesium (Mg), Phosphorus (P), Parathyroid Hormone (PTH and Calcitonin (CT) in the Term Neonate", College of Medicine Small Grant Award. Submitted September 1982, not funded as of this date. Funding requested \$6,000.

Principal Investigator:

Lerner B. Hinshaw, Ph.D.

Co-Investigator:

Kenneth E. Blick, Ph.D., et al.

"An Evaluation of Naloxone-Corticosteroid Combination Therapy for Septic Shock", U.S. Army Medical Research. Submitted January 1983, rejected. (To be resubmitted to NIH).

Principal Investigator:

George P. Henstreet, M.D., Ph.D.

Co-Investigator:

Kenneth E. Blick, Ph.D.

"Development of a Radioimmunoassay for Endotoxin using Monoclonal Antibodies", U.S. Army Medical Research. Submitted January 1983, rejected. (To be resubmitted to NIH.)

Principal Investigator:

Pankaja S. Venkataraman, M.B.B.S.

Co-Investigator:

Kenneth E. Blick, Ph.D.

"Magnesium Metabolism in Maternal Alcohol Consumption in Pregnancy and Lactation", National Institutes of Health. Submitted June 1983.

Principal Investigator: Kenneth E. Blick, Ph.D.  
Co-Investigator: Diane Janney

Laboratory Computerization Pilot Project", Indian Health Service,  
Submitted in June 1984, Funding requested \$6,139.00. Not funded.

Principal Investigator: Fletcher B. Taylor, M.D..  
Co-Investigator: Kenneth E. Blick, Ph.D.

Suppression of Anticoagulant Factors by Inflammatory Agents, submitted to  
Dept of Health and Human Services, Public Health Service, April 1989.

2. Other Research Funding (from industry)

- |           |  |
|-----------|--|
| 1979-1981 | Boehringer Mannheim Diagnostic, Indianapolis, Indiana.<br>Grant to evaluate and develop automated enzymatic analyses<br>for triglyceride and cholesterol. Funding \$2,000 plus travel,<br>reagents and supplies. |
| 1980-1982 | Dow Chemical Company, Indianapolis, Indiana. Grant<br>to evaluate and develop analyses for<br>SGOT, triglyceride and cholesterol on the Coulter 22 analyzer.<br>Funding \$2,000 plus supplies.                   |
| 1995      | Bayer Corporation. Grant to evaluation cortisol on the<br>Immuno 1. Funding \$1,000 plus supplies.   |
| 1996      | Chiron/Ciba Corning, E. Walpole, Ma. Grant to evaluate<br>Phenytoin and Phenobarbital on the ACS:180. Funding \$2,000<br>plus supplies.  |

3. Other Research Activities

Analytical Methods development at State of Oklahoma Teaching Hospitals

- a. Established the following "Tumor Marker" assays to be used for  
patients' care and clinical research.
  - Quantitative B-HCG
  - Carcinoembryonic antigen
  - Prolactin
  - Midmolecule PTH
  - Intact PTH
  - ACTH
  - Graphic reporting for B-HCG
- b. Coagulation assays
  - Thromboglobulin (research only)
  - Platelet Factor 4 (research only)
  - Lipid A fraction of endotoxin (in progress)
- c. Transplant service

- Cyclosporine
- Graphic reporting for Cyclosporine
- d. Other assays for patients' care and clinical research
  - Renin
  - Graphic reporting for CEA
  - Radioimmunoassay for free T4.
  - Radioimmunoassay for Dehydroepiandrosterone Sulfate.
  - Radioimmunoassay for Testosterone
  - Sensitive TSH
  - Prostatic Specific Antigen (PSA)
  - Prostatic Acid Phosphatase (PAP)
  - Estrogen Receptors
  - Progesterone Receptors
- 4. Grant Requests - Submitted

Dr. K.E. Blick and Dr. R.L. Gillum submitted grant request to OMC PPP Medicaid Committee for Patient Management System, 1991.
- 5. Invention/Patent

Blick, K.E., "A Function Laboratory Test for Cardiovascular Disease Risk".  
Witnessed by Drs. Gillum and Passey and Henry Fry. Paper submitted to Clinical Biochemistry June, 1991.

## X. Publications

### A. Books/Chapters

1. "Nonmetallic Inorganic Nitrogen Compounds", K.E. Blick, Houben, Weyl, Methodicum Chemicum, Vol. VII, 1976, pp. 449-456. (In English and German.)
2. "Compounds of Scandium", K.E. Blick, Houben Weyl, Methodicum Chemicum, Vol. VIII, 1974, pp. 75-78. (In English and German.)
3. "The Alkali Metals and Their Inorganic Salts", K.E. Blick and K. Niedenzu, Houben Weyl Methodicum Chemicum. Vol. VIII, 1976, pgs. 23- 58 (In English and German.)
4. "Principles of Clinical Chemistry", K.E. Blick and S. M. Liles, John Wiley and Sons Publishing Co., New York, 1985. (3rd printing 1991).
  - a. Review of Basic Chemistry and Laboratory Mathematics
  - b. Quality Control and Statistics
  - c. Laboratory Management
  - d. Instrumentation
  - e. Carbohydrates
  - f. Proteins
  - g. Lipids
  - h. Inorganic Ions
  - i. Acid-Base and Electrolytes
  - j. Enzymes



- k. Liver/Pancreas/Gastric
  - l. Endocrinology
  - m. NPN Substances and Body Fluids
  - n. Therapeutic Drug Monitoring and Toxicology
5. Selected Methods, Published by American Association for Clinical Chemistry, Edited by W. Faulkner. K.E. Blick and D.L. Frederick, "An Evaluation of A Rapid Colorimetric Assay of Iron Serum" and "An Evaluation of A Manual Colorimetric Assay of Bromide in Serum". In press.
  6. Quantitative Trace Analysis of Biologic Materials, Elsevier Science Publishers, K.E. Blick and A. Eunice. In progress.
  7. "Advanced LIMS Technology" Medical Laboratory Information Systems (LIS) Editor: Dr. JEH Swafford, Publisher: Blackie Academic & Professional 1995.

B. Articles (Publications in Peer Reviewed Journals)

1. Blick, K.E., Dawson, J.W., and Niedenzu, K.: A normal coordinate analysis of borazine. *Inorg. Chem.* 9, 1416(1970).
2. Blick, K.E., deHaan, J.W., and Niedenzu, K.: A vibrational analysis of cyclopentadiene. *Spectrochim. Acta.* 26A, 2319(1971).
3. Blick, K.E., Niedenzu, K., et al: The vibrational spectra of B- trihaloborazines. *Inorg. Chem.*, 10, 1133(1971).
4. Blick, K.E., Nahm, F.C., and Niedenzu, K.: The vibrational spectra of 2,2-diaminohexafluoropropane. *Spectrochim. Acta.*, 27, 777(1971).
5. Mathur, M.S., Frenzel, C.A., Blick, K.E., and Bradley, E.B.: Investigation of the Raman and infrared spectrum of  $\text{Li}_2\text{Cr}_2\text{O}_7$ . *J. Mol. Structure*, 5, 412(1970).
6. Blick, K.E., Boenig, I.A., and Niedenzu, K.: The vibrational spectra of B-trifluoroborazines. *Inorg. Chem.* 10, 1917(1971).
7. Frenzel, C.A., and Blick, K.E.: On a vibrational analysis of  $\text{S}_2\text{Br}_2$  and  $\text{S}_2\text{Cl}_2$ . *Chem. Phys.* 55, 2715(1971).
8. Frenzel, C.A., Blick, K.E., Bennett, C.R., and Niedenzu, K.: Investigation of the spectra of thiophosgene and higher polymeric forms. *J. Chem. Phys.* 53, 198(1970).
9. Niedenzu, K., Blick, K.E., and Boenig, I.A.: The formation and spectra of tris (methylamino) borane. *Z. anorg. allg. Chem.*, 387, 1(1972).
10. Blick, K.E., Bradley, E.B., Iwatani, K., Niedenzu, K., Takasuka, T., Totani, T., and Watanabe, H.: The vibrational spectrum of N- trimethylborazine. *Z. anorg. allg. chem.*, 417, 19(1975).
11. Blick, K.E., and Niedenzu, K.: The vibrational spectrum of B- trimethylborazine. *Z. anorg. allg. Chem.* 442, 183(1978).

12. Howard, P.M., Blick, K.E., Wright, B.D.: Mid-maximum expiratory flow rate determinations. Cardiovascular and Pulmonary Tech., Sept./Oct., 23 (1975).
13. Blick, K.E., Bradley, E.B., Emerick, D.P., and Niedenzu, K.: Vibrational spectrum of bis (dimethylamino) haloboranes. Z. anorg. allg. Chem., 467,177(1978).
14. Blick, K.E., Nahm, F.C.,and Niedenzu, K.: The vibrational spectra of  $(\text{CF}_3)_2\text{CNH}$ . Z. anorg. allg. Chem., In press.
15. Blick, K.E., Dick T., and Webb, T.: A radioimmunoassay for prostatic acid phosphatase helps identify patients with prostatic cancer. Clin. Chem., 28/12,2373-2377(1982).
16. Dick, T., and Blick, K.E.: Fluorescent acidic substances with electrophoretic migration similar to CK-BB. Clin. Chem., 28/7, 1717 (1982).
17. Dick, T., and Blick, K.E.: Immunoglobulin bound creatine kinase-BB in serum with electrophoretic migration between MM and MB isoenzymes. Clin. Chem. 28/8,1809-1810(1982).
18. Blick, K.E., Commens, M.J., and Passey, R.B.: Improved quality control of acid phosphatase assay by direct reconstitution of lyophilized control materials with citric acid. Clin. Chem. 29/12,2093-3096(1983).
19. Passey, R.B., Blick, K.E., and Gillum, R.L.: Amniotic fluid delta 450 test and severe Rh immunization. Clin. Chem. 29/12,2116-2117(1983).
20. Blick, K.E.: A do-it-yourself approach to scheduling, Medical Laboratory Observer. 15/12,99(1983).
21. Venkataraman, P.S., Blick, K.E., Radhaskishna, R., Fry, H., Parker, K.M., Decline in Serum Calcium, Magnesium and Phosphorus with Oral Glucose in Normal Neonates: Studies of Serum Parathyroid Hormone and Calcitonin, submitted to the Journal of Pediatrics, accepted for publication.
22. Venkataraman, P.S., Blick, K.E., Fry, H., Radhaskrishna, K.R., Postnatal Changes in Calcium Regulating Hormones in Very Low Birth Weight Infants. AJDC, 139, 913-916. (1985):.
23. K.E. Blick, "On Clinical Laboratory Computerization", Clinical Chemistry News, accepted for November issue, 1985.
24. K.E. Blick, and Frederickson, "Evaluation of Analytical Methods for Bromide and Gold, Selected Methods of Emergency Toxicology", American Association for Clinical Chemistry, 1986.
25. R.B. Passey, K.E. Blick, C.L. Bennet, "Downstream Specimen Interactions- An Unusual Effect on Continuous Flow Analysis", Clin Chem, Vol. 32,"No 4, 1986.
26. L.S. Bowlby, R.W. Leech, R.M. Shuman, K.E. Blick, L.E. DeBault, "DNA Analysis of Astorcytomas", J Neuropathol Exp Neurol 45:320 (1986).
27. D.B. Brubaker, K.E. Blick, M. Romine, "Four Immunoassay Methods and Standards Compared for Measuring Fibronectin", Clin Chem, Vol 33, No 1;126-129 (1987).

28. R.B. Passey, K.E. Blick, "Serum and Urine Methylprednisolene and Methylprednisolene Sodium Succinate Assay by a Highly Sensitive HPLC Method", Clin Chem, Vol 32, No 6; 1167 (1986).
29. K.E. Blick, "A Review of Computer Programs for Laboratory Statistics: Anova and LABSTAT", Clin Chem, Vol 33, No 2; 343-344 (1987).
30. F.B. Taylor, Jr., A. Chang, K.E. Blick, et. al., "Protein C Prevents the Coagulopathic and Lethal Effects of Escherichia Coli Infusion in the Baboon", J Clin Invest, No. 79; 918-925 (1987).
31. P.S. Venkataraman, K.E. Blick, et. al., "Decline in Serum Calcium, Magnesium, and Phosphorus Values with Oral Glucose in Normal Neonates: Studies of Serum Parathyroid Hormone and Calcitonin", J Pediatr Vol 108, No 4; 607-610 (1987).
32. F.B. Taylor, Jr., T.E. Emerson, K.E. Blick, et. al., "Antithrombin-III Prevents the Lethal Effects of Escherichia Coli Infusion in Baboons", Circ Shock 26: 227-235 (1988).
33. Blick, K.E., Melouk, Melouk, S.H., Fry, H.D., Gillum, R.L., "A Validation Study of Selected Methods Routinely Used for Measurement of Cyclosporine", Vol 36, No 4, April 1990
34. Venkataraman, P.S., Blick, K.E., "Prolactin Homeostasis in Very Low Birth Weight Infants and Relationship with Changes in Serum Calcium", submitted to Journal of American College of Nutrition January 1990.
35. F.B. Taylor, A.C. Chang, G.T. Peer, T. Mather, K.E. Blick, R. Catlett, M.S. Lockhart, C.T. Esmon: DEGR-Factor Xa blocks disseminated intravascular coagulation initiated by *Escherichia coli* without preventing shock or organ damage. Blood 1991; 78 (2): 364-368.
36. F. Taylor, A. Change, G. Gerrell, T. Mather, R. Catlett, K.E. Blick and C.T. Esmon: C4b-Binding protein exacerbates the host response to *Escherichia coli*. Blood 1991; 78 (2): 357-363.
37. Parker, KM, Rawlings, V, and Blick, KE: Cyclosporine Monoclonal Immunoassays: Fluorescence Polarization Immunoassay Versus Radioimmunoassay. Clin Chem, Vol 37, No. 11, 1991.
38. Taylor, FB, Jr, Chang, AC, Ruf, W, Morrissey, JH, Hinshaw, LB, Blick, KE, and Edington, TS: Lethal septic shock is prevented by blocking tissue factor, Circ Shock, 33: 127-134, 1991.
39. Leech R, Scheithauer B, Blick K, Kovacs K, Horvath E, Davis D, DeBault L: Pituitary adenoma: A DNA ploidy study of 157 operated tumors with correlation of clinical parameters, tumor size, invasiveness, and immunotypes. Patologia 1992 25 (2): 205-206.
40. Venkataraman, PS, Neylan, MJ, Benson, JD, Blick, KE. Mineral Fortified Pre-Term Infant Formula in the Post Hospital Discharge Pre-Term Infant. Submitted for review 1993.

41. Barrett, SM, Romine-Jenkins, M, Blick, KE. Passive Hemagglutination Inhibition Test for Diagnosis of Brown Recluse Spider Bite Envenomation. Clin Chem, Vol 39, No. 10, 1993.
42. Shilin H, Hinshaw L, Emerson T, Kosanke S, White, G, Randolph, MM, Chang, A, Euerr M, Peer G, Passey R, Flournoy DJ, Blick K, Taylor FB, Jr: Retrospective study comparing the pathophysiology of antibiotic-treated and untreated E coli- and S. aureus-infused baboons. Circ. Shock, 41:88-102, 1993.
43. Nadasdy, T, Laszik, Z, Blick, KE, Johnson, LD, Silva, FG, "Proliferative Activity of Intrinsic Cell Populations in the Normal Human Kidney", in press JASN, Vol 4, No. 12, 1994.
44. Nadasdy, T, Laszik, Blick, KE, Johnson, DL, Silva FG, "Tubular Atrophy in the End-State Kidney: A Lectin and Immunohistochemical Study", Cover Article Human Pathology, Vol 21, No. 1, January 1994.
45. Blackett, PR, Blick, KE, Fry H, Garnica, Thyroxine and Triiodothyronine Autoantibodies in Hashimoto's Thyroiditis with Severe Hormone-Resistant Hypothyroidism. Journal of Pediatric Endocrinology, Vol. 7, No. 1, 1994.
46. Nadasdy, T, Laszik, Z, Lajoie, G, Blick, KE, Wheeler, D, Silva, FG, "Proliferative Activity of Cyst Epithelium in Human Renal Cystic Diseases", submitted to JASN, 1994.
47. Lovallo, W, Absi, M, Melton, K, Blick, K, Whitsett, T, Wilson, F, "ACTH and Cortisol Responses to Caffeine in Young Health Men", submitted 1994.
48. Taylor, FB, Jr, Kosanke, SD, Randolph, MM, Emerson, TE, Jr, Hinshaw, LB, White, GL, Chang, AC, Peer G, Blick, K: Retrospective description and experimental reconstitution of three different responses of the baboon to lethal E. coli. Circ. Shock, 42:92-103, 1994.
49. Nadasdy, T, Laszik, Z, Blick, K, Johnson, D, Burst-Singer, K, Nast, C, Cohen A, Ormos, J and Silva F, "Human Acute Tubular Necrosis: A Lectin and Immunohistochemical Study". Human Pathology Vol 26, No. 2, February 1995.
50. Nadasdy, T, Laszik, Z, Lajoie, G, Blick, K, Wheeler, D, and Silva, F., "Proliferative Activity of Cyst Epithelium in Human Renal Cystic Diseases". JASN, Vol 5, No. 7:1462-1468, 1995

C. Papers In Progress

1. Smith, D., and Blick, K.E.: An evaluation of the relative frequency of various skin diseases using data base computer programming for multivariable analysis.

## CURRICULUM VITAE

Kenneth E. Blick, Ph.D.

page 19

Submitted to the Journal of the American Academy of Dermatology (Accepted pending minor revisions).

2. Blick, K.E.: A complete microcomputer reporting and billing system a dermatopathology group practice for less than \$8,000. To be submitted to the Journal of the American Academy of Dermatology.
3. Blick, K.E., and Dick, T.: Evaluation of CK-BB and other serum analytes as tumor markers for prostatic cancer. In progress.
4. Webb, T.A., Dick, T.T., Blick, K.E., Sinn, C.M.: Association of serum creatine kinase-BB with small cell anaplastic carcinoma of the lung: two case reports with contrasting electrophoretic patterns. Submitted to the American Journal of Clinical Pathology, September 1, 1984. Rejected (to be resubmitted to Clinical Chemistry).
5. Goin, J.E., Blick, K.E., Tomaszewski, J.E., "Automated Image Cytometry: Where Do We Go From Here?", submitted to Chemometrics and Intelligent Laboratory Systems, July 1987.
6. P.S. Venkataraman, G.J. Sanchez, R.W. Pryor, K.E. Blick, et. al., "Hypocalcemia in Acutely Ill Children: Studies in Serum Ca, Blood Ionized Ca, and Ca Regulating Hormone", submitted to J Pediatr, October 1988.
7. P.S. Venkataraman, K.E. Blick, D.A. Wilson, "Prospective Renal Sonographic Evaluation of Preterm Infants for the Occurrence of Nephrocalcinosis Report of Theophylline Induced Hypercalciuria and Nephrocalcinosis", submitted to Pediatrics in October 1988.
8. K.E. Blick, S. Melouk, H.D. Fry, and R.L. Gillum. "A Validation Study of Selected Methods Routinely Used for the Measurement of Cyclosporine" Accepted for publication in the March 1989 Clin Chem.
9. Blick, K.E., "Volatile Metabolic Acid Can Cause Lipid Deposition as Seen in Atherosclerosis" submitted to Clinical Biochemistry for publication, 1991.
10. Blick, K.E., Passey, R.B., "Clinical Pathology Consultations on a Pc/System 36 Network", submitted to Clin Chem, 1991.
11. Venkataraman, P.S., Blick, K.E., Fry, H.D., "Effect of Mode of Administration of Vitamin D on Serum 25-Hydroxy Vitamin D Concentrations in Preterm Infants", in press 1991.
12. Blick, K.E.: A Proposed Centiunits System for Numerical Clinical Laboratory Results. Submitted to Clin Chem, 1995.
13. Blick, K.E., "Automated Immunoassay: A Review of Systems". To be submitted.

### D. Abstracts Peer Reviewed

(All papers presented by K.E. Blick unless otherwise indicated.)

# CURRICULUM VITAE

Kenneth E. Blick, Ph.D.

page 20

1. K.E. Blick, An evaluation of a new colorimetric triglyceride assay. Boston meeting of A.A.C.C., Abstract #445, Clin. Chem., 26/7, 1043(1980).
2. A modified mercury thiocyanate method for measuring chloride levels in sweat. K.E. Blick, and M.J. Commens, Clin. Chem. 28/7, 1553(1982).
3. Blick, K.E., An evaluation of a new radioimmunoassay for prostatic acid phosphatase. Kansas City meeting of A.A.C.C., Abstract #192, Clin. Chem. 27/6, 1062 (1981).
4. Blick, K.E., CK-BB and associated artifacts as tumor markers for prostatic cancer. 33rd meeting of A.C.S. in Lexington, Ky., October 1981. Abstract #36.
5. Blick, K.E., A modified mercury thiocyanate method for the measurement of chloride in sweat. 33rd meeting of A.C.S. in Lexington, Ky., October 1981. Abstract #36.
6. Blick, K.E., Comparison of the tangible benefits in terms of staffing reductions in partial versus complete laboratory computerization. 35th National meeting of A.A.C.C., Abstract #82, Clin. Chem., 29/6, 1172(1983).
7. Blick, K.E., Passey, R.B., and Gillum, R.L. An examination of the total costs of clinical laboratory computerization for a 600 bed community hospital. Clin. Chem. 30:955(1984).
8. Passey, R.B., Blick, K.E., and Bennett, C. An unusual effect of viscous specimens on a continuous flow analyzer. Clin. Chem. 30, 1055(1984). (Presented by R.B. Passey).
9. Blick, K.E., Roghain, H., Fry, H., Gillum, R.L., Passey, R.B. A Comparison of Two Rapid, Solid Phase Assays for the Thyroxine and Thyronine Uptake. Clin. Chem. 31:924, 1985.
10. Blick, K.E., The Integration of Computers into the Clinical Laboratory. Clin. Chem. 31:891, 1985.
11. Venkataraman, P.S., Blick, K.E., Parker, M., Fry, H., Prolactin Homeostasis in Very Low Birth Weight Infants: Effect of Hypocalcemia and Calcium Infusion on Prolactin release and Secretion in Neonates. Ped. Res. 18:179A, 1984. (Presented by Venkataraman)
12. Venkataraman, P.S., Toubas, P.L., Rao, R.K., Parker, M.K., Blick, K.E., Derangements of Ca Homeostasis Associated with Lipid Infusion: Lowered Blood Ionized Ca and Sequestration of Ca in the Lipid Fraction of Serum. AM. J. Coll. Nutr. 3:237A, 1984. (Presented by Venkataraman)
13. Venkataraman, P.S., Blick, K.E., Fry, H.D., Rao, R.K., Postnatal Changes in Calcium Regulating Hormones in Very Low Birth Weight Infants: Serum Parathyroid Hormone and Calcitonin Responses in Early Neonatal Hypocalcemia and Effect of Intravenous Ca Infusion. Clin. Res. 32:907A, 1985. (Presented by Venkataraman)
14. Venkataraman, P.S., Blick, K.E., Fry, H.D., Dasarathy, D., Calcemic and Calciotropic Hormone Responses to Glucose Ingestion in Neonates: Lowered Serum Ca, Mg, P and elevated Serum Parathyroid Hormone. Pediatr. Res. 19:194A, 1985. (Presented by Venkataraman)



15. Venkataraman, P.S., Blick, K.E., Fry, H.D., Dasarathy, D., calcemic and Calcitropic Hormone Responses to Glucose Ingestion in Neonates: Lowered Serum Ca, Mg, P and Elevated Serum Parathyroid Hormone in Hypocalcemic Very Low Birth Weight Infants. Pediatr. Res. 19:369A, 1985. (Presented by Venkataraman)
16. Venkataraman, P.S., Blick, K.E., Dasarathy, G., Effect of Glucose on Serum Ca, Blood Ionized Ca and Unresponsive Serum Parathyroid Hormone. Pediatr. Res. 19:322A, 1985. (Presented by Venkataraman)
17. Blick, K.E., Dick, T.T., Webb, T.A., and Passey, R.B., "A Clinical Evaluation of Creatine Kinase-BB as a Tumor Marker for Prostatic Cancer", Clin Chem 32, 1986.
18. Passey, R.B., and Blick, K.E., "Serum and Urine Methylprednisolone Assay by Highly Sensitive HPLC Method", Clin Chem 32, 1986.
19. Blick, K.E., Fuller, D., Passey, R.B., "Computer Programs for Laboratory Statistics Developed on an IBM-RT Supermicrocomputer", Clin Chem, Vol 33, No 6, page 985, 1987.
20. Blick, K.E., Fry, H., Passey, R.B., "An Evaluation of an Automated Ferritin Assay Using the Vitek Systems Kineticon-48", Clin Chem 34:1173, 1988.
21. Passey, R.B., Fuller, C.G., Gillum, R.L., and Blick, K.E., "Potentiated inhibition of LDH Isoenzymes 5 by Urea in Frozen Specimens", Clin Chem 34:1289, 1988.
22. Blick, K.E., Fuller, C., "A LOTUS 1-2-3 Template with Macros for Laboratory Statistics", Clin Chem, Vol 34, No 6, page 1248, 1988.
23. Passey, R.B., Duty, G., Blick, K.E., and Gillum, R.L., "The Effect of Hemoglobinemia on Bilirubin Assays on the Kodak Ektachem 700 and Bilirubinometer," Clin Chem Vol 35, No 6, page 1157, 1989.
24. Blick, K.E., Fry, H.D., Passey, R.B., Gillum, R.L., "Comparison of Four Methods for the Measurement of Cyclosporin," Clin Chem Vol 35, No 6, page 1186, 1989.
25. Dunn, D.J., Blick, K.E., Gillum, R.L., "Measurement of Estrogen and Progesterone Receptors in Breast Tumors using Steroid Binding Assays and Monoclonal Enzyme Immunoassays," Clin Chem Vol 35, No 6, page 1138, 1989.
26. Blick, K.E., Udwin, M.U., "An Artificial Intelligence Program for the Interpretation of Raw Data from Automated Hematology Instruments," Clin Chem Vol 35, No 6, page 1089, 1989.
27. Parker, K.M., Green, J.L., Altmiller, D.H., and Blick, K.E., "Confirmatory Breath Ethanol Testing," Clin Chem Vol 35, No 6, page 1184, 1989.
28. Elrod, J.P., Blick, K.E., "A Comparison of Coulter VCS Automated Differentials with Coulter STKR and Manual Differentials", Clin Chem, Vol. 36, No 6, 1990.
29. Dunn, Don, Blick, K.E., "A Clinical Evaluation of PSA and PAP in the Diagnosis of Prostatic Cancer", Clin Chem, Vol 36, No.6, page 1049, 1990.

# CURRICULUM VITAE

Kenneth E. Blick, Ph.D.

page 22

30. Blick, K.E., Beats, S., Passey, R., Gillum, R.L., "PC Based Batch Jobs Control from Clinical Pathology Computers", Chem Chem, Vol 36, No 6, page 1013, 1990.
31. Passey, R.B., Maluf, S., Maluf, K., Blick, K.E., "The National Committee for Clinical Laboratory Standards (NCCLS) Evaluation Protocol EP5 Gives Lower Estimates of Imprecision than Traditional Calculation of Standard Deviation", Clin Chem, Vol 36, No. 6, page 1177, 1990.
32. Blick, K.E., Passey, R.B., "A Computer System For Clinical Pathology Consultations", Clin Chem, Vol. 37, No. 6, 1991.
33. Fry, H., Blick, K.E., Garnica, A., Blackett, P., "Falsely High Free T4, Normal Total T4, Low T3RU with Antibodies To T4 and Thyroid Microsomes in a Hypothyroid Child: A Diagnostic Dilemma", Clin Chem, Vol. 37, No. 6, 1991.
34. Blick, K.E., Smith, M., Gillum, R., "Apparent Lack of Concordance Between Free T4 and TSH Determinations", Clin Chem, Vol 37, No. 6, 1991.
35. Venkataraman, P.S., Blick, K.E., Fry, H.D., "Effect of Mode of Administration of Vitamin D on Serum 25-Hydroxy Vitamin D Concentrations in Preterm Infants", 1991.
36. Blick, KE, Fry, H, Gillum RL: An Evaluation of Automated Non-Isotopic T3, T4, T3 Resin Uptake, and FTI on the Tosoh AIA-1200 Versus an Automated Isotopic Analyzer. Clin Chem. Vol 38, No. 6, 1992.
37. Blick, KE, Dunn DJ, Fry H, Gillum RL: An Evaluation of TSH, T4 and Free T4 on the Corning ACS:180. Clin Chem. Vol 38, No. 6, 1992.
38. Blick, KE, Richard, B: Automated Interpretative Comments and Logging of "Discrepant" TSH/Free Thyroxine Results Using An Expert System. Clin Chem Vol 39, No. 6, 1993.
39. Blick, KE, Dunn, DJ, Fry, H, and Gillum, R. An Evaluation of Rapid Digoxin and HCG Assays on the Corning ACS: 180. Clin Chem. Vol 39, No. 6, 1993.
40. Blick, KE, Fry, HD, Tostenson, G, Dunn, DJ, and Gillum R. Evaluation of Automated Folate, Vitamin B12 and Ferritin Chemiluminescence Assays on the Ciba-Corning ACS-180 Random Access System. Clin Chem. Vol 39, No. 6, 1993.
41. Pera, VE, Venkataraman, PS, Rossavik, IK, Blick, KE. Growth Metabolic Hormones: Relationship with Status at Birth. Presented at Southern Society of Pediatric Research, New Orleans, LA, January 23, 1993. (Presented by Venkataraman)
42. Nadasdy, T., Laszik, Z., Johnson, D., Blick, K., Silva, F. Proliferative Activity of Cyst Epithelium in Autosomal Dominant Polycystic Kidney Disease (ADPKD) and Acquired Cystic Kidney Disease (ACKD). Presented at the American Society of Nephrology Meeting, November 14-17, 1993. (Presented by Nadasdy)
43. Nadasdy, T., Laszik, Z., Blick, K., Johnson, F., Silva, F. Proliferative Activity of Intrinsic Cell Populations in the Normal Kidney. Presented at The American Society of Nephrology Meeting November 14-17, 1993. (Presented by Nadasdy)

44. Blick, KE, Richard, B, "Implementation of a Thermal Barcoding System for the Clinical Laboratory". Clin Chem. Vol 40, No. 6, 1994.
45. Blick, KE, "Using Expert System Technology for Improving Total Laboratory Quality". Clin Chem. Vol 40, No. 6, 1994.
46. Fry, HD, Blick, KE. "An Evaluation of the Widget Macrovolumetric Automated Pipet. Clin Chem. Vol. 40, No. 6, 1994.
47. Blick, KE. "Automated Immunoassay: Past, Present & Future". CLAS Journal, 1994.
48. Koren, E, Koscec, M, Blick, K. "Characterization of Monoclonal Antibody That Binds Selectively to Low Density Lipoproteins". Clin Chem. Vol. 40, No. 6, 1994.
49. Lajoie G, Nadasdy T, Blick K, Laszik Z, Johnson L, Hemann B, Silva F: Mast cells in acute cellular rejection of renal allografts. Lab Invest 70:158A, 1994.
50. Nadasdy T, Laszik Z, Johnson L, Blick K, Cohen A, Silva F: Proliferative activity of renal tubules in acute tubular necrosis (ATN) in transplant and native kidneys. Lab Invest 70:159A, 1994.
51. Blick, KE, Chaney, CD, Fry, HD, Gillum, RL. "An Evaluation of Three Automated Methods for the Measurement of Prostate-Specific Antigen (PSA)". Clin Chem. Vol. 41, No. 6, 1995.
52. Fry, HD, Blick, KE, Hagan, J, Gillum, RL. "An Evaluation of HCG, FSH, LH, and TSH on the Vidas Automated Immunoassay Analyzer". Clin Chem. Vol. 41, No. 6, 1995.
53. Blick, KE. "Cost Effective Workstation Consolidation Using Automated Immunoassay (IA) Systems." To be presented at National AACC Meeting, July 1996.
54. Blick, KE, Richard, EJ. "Computer Generated Global Net Revenue Report." To be presented at National AACC Meeting, July 1996.
55. Blick, KE, Fry, HD, Chaney, CD, Watson, L, Hagan, J, Passey, RB, Gillum, RL. "An Evaluation of Three Automate Methods for the Measurement of Cortisol." To be presented at National AACC Meeting, July 1996.

E. Presentations/Articles and Abstracts (Non Peer Reviewed)

1. Blick, K.E., Computerization of Anatomic Pathology using IBM Microcomputers and Minicomputers, Pathology Day Conference, Un. of Oklahoma, April, 1985. Poster presentation/abstract
2. Blick, K.E., Laboratory Computerization in a University Hospital, featured speaker (all expenses paid), Symposium on Laboratory Computerization, London England, October, 1984. (10 page article written and distributed as a handout)
3. Blick, K.E., Electrolytes and Acid-Base Status for Laboratory Medicine, University of Oklahoma Health Sciences Center, 10 pages, 1984.

4. Blick, K.E. "Personal Computers as Intelligent Terminals to the MedLab Computer", MedLab Users Newsletter, Vol 5, #1,5 (1986).
5. Blick, K.E. "Specifications for a Personal Computer-MedLab Interface", MedLab Users Newsletter, Vol 5, #1, 3 (1986).
6. Blick, K.E. "Surgical Pathology Computerization", MedLab Users Newsletter, Vol 5, #1, 3 (1986).
7. Blick, K.E., "Facing the Interface", Clin Chem News, Vol 13, No 2;4 (1987).
8. R.B. Passey and K.E. Blick, Answer to question in Q&A section "What are the indications for free T4 by equilibrium dialysis in testing for Thyroid Disease?" CAP Today Vol 1, No. 12, page 23, December 1987.
9. K.E. Blick, "Recent Progress in Laboratory Information Systems", Clin Chem News, Vol 14, No 8 (1988).
10. Blick, K.E., "Current Applications and Future Directions of Computer- Assisted Instruction in Medical Education," IBM Academic Computing Conference, Dallas, TX, June 1988.
11. Blick, K.E., "Computer Programs for Laboratory Statistics Developed on an IBM-RT Supermicrocomputer," abstract presented at MedLab Users Group Annual Meeting, Salt Lake City, Utah, February, 1988.
12. K.E. Blick, Computerization of Anatomic Pathology, Pathology Billing, and Office Automation". Application Highlight published by IBM, December 1988.
13. K.E. Blick, "An Expert System for the Interpretation of Raw Laboratory Data from Automated Hematology Instruments", published in Proceedings of the Oklahoma Symposium of Artificial Intelligence, November 3-4, 1988. Sponsored by the Oklahoma Center for Artificial Intelligence OU, OSU, and Tulsa University.
14. K.E. Blick, T.O. Tiffany, "Tower of Babel has Interfacing Lessons for Laboratory", published in Clin Chem News, April 1990.
15. K.E. Blick, A.S. Beats, R.B. Passey, "PC Based Batch Jobs Control for Clinical Pathology Computers". published and presented at annual Medlab Users Group meeting Meeting in Salt Lake City, UT January 1990.
16. K.E. Blick, "Computerization of Clinical Laboratories: Past, Present, and Future", presented at LIMS Conference in Pittsburgh, March 1990.
17. K.E. Blick, "How To Select a Laboratory Computer System", presented at Fall AACC Texas Section Meeting in Lubbock, TX., Oct 1990.
18. Blick, K.E., "Paperless Microbiology on the Pathlab III System", 3M MedLab Focus, in press. 1991.
19. Blick, K.E., "Regulations for LISs," Clinical Lab Letter, March 1991.
20. Blick, K.E., "Cyclosporine" Letter to the Editor in response to K. Napoli, Ph.D. letter, CAP Today, Vol. 5, No. 4, p. 13. 1991

21. Blick, K.E., "Regulatory Issues for Clinical Laboratory Computer Systems", Quest Publishing Co. Interview, 1991.
22. Blick, K.E., "Automation is the Answer to Some Problems Facing Modern Laboratories", 3M Focus, 1991.
23. Blick, K.E., "Artificial Intelligence in Medicine", Fifth Oklahoma Symposium on Artificial Intelligence, OCCE Forum, 1991.
24. Blick KE, Oklahoma Medical Center Steps Up to a Higher Level of Efficiency with Paperless Microbiology, 3M LIS Focus, Spring 1992.
25. Blick KE, "Clinical Laboratory Computerization Using Relational Database and Expert System Technology," Keynote speaker - abstract presented at Sixth International LIMS Conference, Pittsburgh, PA, June, 1992.
26. Blick KE, "Evaluation of Automated Folate, Vitamin B12 and Ferritin Chemiluminescence Assays on the Ciba Corning ACS:180 Random Access System" reprinted by Ciba Corning for System and Assay Abstract Book, June 1994.
27. Blick KE, "An Evaluation of Rapid Dignoxin and HCG Assays on the Corning ACS:180" reprinted by Ciba Corning for System and Assay Abstract book, June 1994.
28. Blick, KE. "The Clinical Chemist/Scientist: To Be or Not to Be? A Question of Relevance" published in Clinical Laboratory News, Special Edition, July 1995.

F. Unpublished Reports

1. An evaluation for the tangible and intangible benefits of laboratory computerization. For Deaconess Hospital. Blick, K.E., Schuler, R. Unpublished report, 1980.
2. A current survey of clinical laboratory minicomputer systems. For Deaconess Hospital. Blick, K.E., Schuler, R., Unpublished report, 1980.
3. An Evaluation of Three Vendors of Hospital Information Systems. For Oklahoma Teaching Hospitals. Blick, K.E., Unpublished report, 1986.
4. Venipuncture, Peripheral Smear, and Dry Chemistry Analyzer. For University Hospitals. Pikul, F., Cannfield, V, Blick, KE, Unpublished report, 1993.

G. Editorial Responsibility

1. Developed a quarterly newsletter entitled "Communication Link" for the Laboratory Information Systems Division of the AACC.
  - a. Blick, K.E., Laboratory Information Systems Division Newsletter, March 1984.
  - b. Blick, K.E., Laboratory Information Systems Division Newsletter, June 1984.
  - c. Blick, K.E. and Bradley, C.A., Eds, Laboratory Information Systems Division Newsletter, April, 1985.



- d. Blick, K.E. and Bradley, C.A., Eds, Laboratory Information Systems Division Newsletter, July, 1985.
- e. Blick, K.E. and Bradley, C.A., Eds., Laboratory Information Systems Division Newsletter, February, 1985.
- f. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, June 1986.
- g. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, December 1986.
- h. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, April 1987.
- i. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, October 1987.
- j. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, March 1988.
- k. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, June 1988.
- l. Blick, K.E., Glatt, J.E., co-editors, Laboratory Information Systems Newsletter, October 1988.
- m. Blick, K.E., Glatt, J.E., co-editors, Laboratory Information Systems Newsletter, January 1989.
- n. Blick, K.E., and Glatt, J.E., co-editors, Laboratory Information Systems Newsletter, July 1989.
- o. Blick, K.E., and Glatt, J.E., co-editors, Laboratory Information Systems Newsletter, November 1989.
- p. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, July 1990.
- q. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, March 1991.
- r. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, July 1991.
- s. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, January 1992.
- t. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, April 1992.
- u. Blick, K.E., Glatt, J.E., co-editors, Laboratory Information Systems Newsletter, July 1992.
- v. Blick, K.E., Glatt, J.E., co-editors, Laboratory Information Systems Newsletter, July 1993.
- w. Blick, K.E., and Glatt, J.E., co-editors, Laboratory Information Systems Newsletter, January 1994.
- x. Blick, K.E., and Glatt, J.E., co-editors, Laboratory Information Systems Newsletter, July 1994.

#### H. Other

- 1. Reviewer for book titled "Computerized Quality Control: Programs for the Analytical Laboratory", published in Clin Chem, July 1987 issue.
- 2. Reviewer of Article for Clinical Chemistry, Computer Program for Creatinine Clearance, December 1986.
- 3. Reviewer of Book and Computer Software for Clinical Chemistry, 'LABSTAT and Anova programs' by S. Steindel, Ph.D., 1986.



4. Reviewer of Book for CRC Press, Inc., on Substance Abuse Testing, December 1986.
5. Reviewer of Manuscript for Clinical Chemistry on a Cumulative Reporting System Using Informix, January 1987.
6. Reviewer of Article for Clin Chem, "The Uses of Computers to Improve the Ordering of Laboratory Investigations," August 1987.
7. Reviewer on Presbyterian Health Foundation Grant Committee to review grant proposals, August 1988.
8. Reviewer on Presbyterian Health Foundation Grant Committee to review grant proposals, May 1988.
9. Reviewer on Presbyterian Health Foundation Grant Committee to review grant proposals, August 1988.
10. Reviewer for Clinical Chemistry Journal for Laboratory Computer Manuscripts, 1989-1990.
11. Reviewer of article for Clin Chem "Monoclonal Antibody Fluorescent Polarisation Immunoassay Versus 125.iode Labelled Ligand Radinimmunoassay for the Measurement of Cyclosporine Concentrations in Whole Blood . March 1991.
12. Reviewer of Manuscript for JASN on RIAs for ANCA in the Diagnosis of RPGN, Feb. 1991.
13. Reviewer of Manuscript for Clin Chem "On-Line Access to Comprehensive Testing Service Specifications" May 22, 1995.

## XI. Computer Systems Development

- 1991 Major computer development activities successfully installed and
- 1) Implemented the Pathlab 3 system for clinical pathology and negotiated for the DG 40,000 system.
  - 2) Began implementation of Blood Bank. Designed, programmed and implemented
  - 3) A billing system to handle new RBRVS system for Part B
  - 4) Designed, programmed and implemented new application for histology laboratory. Includes worklists, special labels and workload statistics.
- A. RT Statistics Program
- 1987 Developed a Laboratory Statistics Program for the IBM RT.
- B. RT Artificial Intelligence Program
- 1988 Developed an artificial intelligence program for raw laboratory data from the Coulter + 4.

C. AACC Editorial Office

1987-1988 Completed installation of computer system for office automation for the editorial office of the American Association for Clinical Chemistry. Installation included programs for tracking of manuscripts in dBase.

D. Anatomic Pathology

1983-present Proposed, designed, programmed, and installed a computer system for Anatomic Pathology serving the teaching hospitals and the Pathology Department Office.  
System includes:

1. Multiuser applications for storage and retrieval of patient data.
2. Generation of pathology reports.
3. Laboratory billing, management, and office automation.

D. Clinical Laboratory

1982-present Directed the planning, installation and management of two, coexisting Medlab (Control Data Corporation) clinical laboratory computer systems serving three hospitals.

1. Twenty-nine separate departments including blood bank.
2. Eighteen on-line instruments.
3. One hundred and thirty peripheral devices.

E. Dermatopathology

1982-present Developed a computer application for a dermatopathology group practice and clinic (including design, programming, support and documentation) on a IBM System 32, and IBM 36.

Application

1. Complete pathology reporting system, using interactive data entry, with computer codes for diagnosis, computer generated description or comments, dictated physician narratives, or computer generated narratives plus dictation.
2. Storage and retrieval of dermatopathology results.
3. Patient billing (patient, monthly accounts, and third party and collections referral).
4. Doctor's volume statistical reports.
5. Accounting applications.
6. File update and inquiry.

F. Cardiopulmonary

1972-1975

Developed a complete set of computer programs for the cardiopulmonary laboratory including:

1. Basic lung volumes.
2. Single-breath nitrogen.
3. Carbon monoxide diffusion.
4. Blood gases.
5. Phonocardiography.
6. Box plethysmography.

These programs are now being used in four regional laboratories for the evaluation of pneumoconiosis (black lung) in disability claims for coal miners.

G. Private Clinical Laboratory

1975-1978

Developed a complete set of computer programs (including programming, evaluation, support, and documentation) for a large private clinical laboratory on an IBM System 32, IBM System 34, and IBM System 36.

Application

1. Pricing and discounting.
2. Accounts receivable.
3. Billing (patient, monthly accounts, and third party and collections referral).
4. Marketing applications (accounts volumes and trends, departmental profit and/or loss by test), mailing labels application.
5. Accounting applications.
6. File update and inquiry.
7. Interactive data entry.
8. Results reporting to physicians.

H. In Vitro Radioisotope Testing

1983

Developed computer program for the evaluation of gamma counter reliability using the chi square test. Program now in use at Oklahoma Teaching Hospitals.

XII. University Governance

A. Committees

1. Department (University of Oklahoma, Pathology)

1982-present

Clinical Chemistry Committee

1982-present	Committee on Computerization of Anatomic Pathology
1982-present	Infection Control Committee
1983-present	Curriculum Committee for Clinical Chemistry, Department of Laboratory Medicine, College of Health
1984-present	Pathology Executive Committee
1985	Computer Standards Committee
1986	Chairman, Clinical Pathology Consultation Committee
1986-present	Pathology Billing Committee
1986	Sections Director Committee
1986	Job Description Committee
1986	Incentive Plan Committee
1987	Chairman, Promotions Committee
1988	Committee to Develop Internal Guidelines for Research Projects
1988, 89, 90	Presbyterian Health Foundation Grant Review Committee
1989-present	Residency Training Program Committee
1990-present	Computing Advisory Committee
1991-present	Center of Molecular Medicine Oversight Committee for Computer Core Facility
1994-present	Enterprise Committee - Author of Proposed Shared Agreement
1994 - present	Telepathology Committee - Chairman

## 2. Hospital/University Committees

1984-present	Radiation Safety Committee, OMC
1984-present	Information Management Systems Medical Committee, OMC
1984-present	Computer Systems Users Committee, OMC
1984-present	Site Visit Team for the Selection of a Hospital Computer System.
1985-present	OMC Laboratory Results Reporting Committee
1988-present	Documentation Standards Task Force, OMC
1989	Interview Committee for Director of Hospital Information Systems
1989	Selection Committee for Data Processing Branch Manager, Hospital Information Systems
1989	Presbyterian Health Foundation Grant Review Committee
1992-93	Faculty Senate - Alternate
1993-94	Faculty Senate - Alternate
1993	Academic Appeals Board - Ad hoc committee
1993	College of Medicine - Graduate Faculty Member
1994-95	Faculty Senate - Chairman-Elect
1994 -95	HIS Selection Committee
1994-present	Hospital Users Group Committee
1994-present	R&E Selection Committee
1994-present	Faculty Senate, Chairman of Committee on Committees - Campus Wide
1994-present	Promotion & Tenure Committee - Faculty Senate
1995-present	TAG Committee
1995-1996	Faculty Senate - Chairman
1995-present	Med Tech Steering Committee

1995-present      Med Tech Chemistry Program Coordinator

3. Department (University of Kentucky at Prestonsburg)

1972	Curriculum Development Committee
1972-73	Chairman, Faculty Senate
1972-73	College Advisory Board, Faculty Representative
1971-75	Nursing Program Committee

B. Other

As a member of the Clinical Chemistry Committee at the University of Oklahoma, recently conducted a survey of all active education programs in clinical chemistry. Resulting information will be used to design a program in clinical chemistry graduate education at the University of Oklahoma.

### XIII. Professional Service

A. Service to Professional Societies

1. 1983-present - Founder and Chairman, Division of Laboratory Informations Systems Division of the AACC, 675 members.
2. 1984-present - Member, AACC Committee of Division Affairs.
3. Program Chairman, Symposium on Laboratory Computers, 1985 National Meeting in Atlanta.
4. Program Chairman, Regional LIS Division Meeting, Oklahoma City, October 18-20, 1984.
5. Program Chairman, Annual LIS Division Meeting, Washington, D.C., August, 1984.
6. Chairman, Executive Committee Meeting, LIS Division, Knoxville, TN, May 1984.
7. Program Chairman, Annual LIS Division Meeting, Atlanta, GA, 1985.
8. Chairman, Regional LIS Division Meeting, Nashville, TN, 1985.
9. Program Co-Chairman, Regional LIS Division Meeting, Nashville, TN, October, 1985.
10. Program Chairman, Annual LIS Division Meeting, Chicago, IL, August 1986.
11. Program Chairman, Symposium on Use of Computers to Improve Quality in the Clinical Laboratory, 1986 National Meeting in Chicago.
12. Program Chairman, Computer Workshop for Laboratory Professionals, September 15-20, 1986, Norman, OK.
13. Chairman, Executive Committee Meeting, LIS Division, May, Knoxville, 1986.
14. Program Chairman, Symposium on Laboratory Computers, 1987 National AACC Meeting in San Francisco.
15. Chairman, MedLab Users Group Committee on Interfaces, Subgroup on Intelligent Terminals.
16. 1985-present, Consultant, Laboratory Computing, Kings Daughter Hospital, Madison, IN.
17. 1987-present - Member, ASTM Committee of Computerized Systems
18. Program Chairman - LIS Division symposium on Lab Computerization: Tools for Survival, April 22 & 23, 1988, Oklahoma City, OK.
19. Program Chairman, symposium on Health Care Application Information Processing Standards for Clinical Laboratory Systems, co-sponsored by LIS Division of AACC and American Society for Testing Materials, April 20-21, 1988, Oklahoma City, OK.

## CURRICULUM VITAE

Kenneth E. Blick, Ph.D.

page 32

20. 1990-present, Oklahoma State Association of Pathologists
21. Advisory Committee, Western Kentucky University, Oct. 22-25, 1993.
22. AACC 1994 National Meeting Organizing Committee - Round Table Chairman.
23. AACC 1996 National Meeting Abstract Review Committee.

### B. Continuing Education

- |           |  |
|-----------|--|
| 1989      | Workshop for Pathology Residents "Computer Literacy Training for Laboratory Medicine: A 'Hands-On' Computer Workshop". held at the Computer Laboratory, OUHSC Library, July 17, 18, and 19.  |
| 1986      | Departmental Research Conference presented entitled "Current Use of Tumor Marker Assays in the Detection of Prostatic Cancer, February, 1986.  |
| 1985      | Developed and conducted a workshop entitled "Computer Workshop for Laboratory Professionals", held at the Oklahoma Center for Continuing Education, Norman Oklahoma, Sept. 15-20, 1985. Twenty attendees.  |
| 1984      | "Office Automation Systems on IBM Mini and Micro Computers", presented to all secretaries associated with the Department of Pathology, OMC.  |
| 1983      | Pathology Continuing Education Sessions:<br>Endocrinology of Calcium Metabolism, May 2, 1984.<br>Applications on Computer & Quality Control, March 21, 1984.<br>Introductions to Programming Microcomputers, October 25, 1983.<br>Characteristics and Utility of Various Computer Programming Languages, March 23, 1983.<br>Prostatic Acid Phosphatase, May 11, 1983.<br>Characteristics and Utility Various Computer Programming Languages (Presbyterian Hospital), April 18, 1983. |
| 1983      | Developed and conducted two "PACE" approved workshops with handouts for continuing education in laboratory computerization for the American Society for Medical Technology.  |
| 1975-1978 | Responsible for continuing education in clinical chemistry in monthly conference to medical technologists at Pathology and Cytology laboratories along with 15 hospital laboratories served by our reference laboratory.   |
| 1978-1982 | Responsible for continuing education lectures in clinical pathology given to medical technologists, physicians and nurses at Deaconess Hospital, including weekly participation in Pathology and Grand Rounds Conference.  |



C. Recent Special Lectures or Workshops

(Invited speaker with all expenses paid and presented by K.E. Blick)

1. Current status of tumor marker assay for prostate cancer. Downtown Kiwanis and Deaconess Hospital Foundation, December 1980, invited speaker.
2. Experimental consideration and clinical usefulness of HDL and LDL- cholesterol determinations. Grand Rounds Conference, Deaconess Hospital, February 1981.
3. Dacos, Hitachi, and Aurora - A new generation of clinical chemistry analyzers. Indiana State Society for Medical Technology, April 1981, Lafayette, Indiana, invited speaker.
4. Overview of clinical laboratory computer systems available. Kentucky State Society for Medical Technology, Louisville, Ky., March 1982, workshop director, invited speaker.
5. Selection and evaluation of a laboratory computer system and organization aspects. Kentucky State Society for Medical Technology at Louisville, KY., March 1982, workshop director and invited speaker.
6. Selection of a clinical laboratory computer system. Pathology Day Conference, University of Oklahoma Health Sciences Center, Oklahoma City, OK., April 1982.
7. Laboratory computerization - bridging the chasm. National meeting of Hospital Information Sharing Group (HISSG), Toronto, Ontario, Canada, July 1982. Keynote address, invited speaker.
8. CPK an LDH cardiac profiles and possible pitfalls in interpretation. Region IV meeting of the American Society for Medical Technology, Lexington, KY., September 1983, invited speaker.
9. Introduction to computer programming for the clinical laboratory. Region IV meeting of the American Society for Medical Technology, Lexington, KY., September 1983, PACE approved workshop for C.E. credit, invited speaker.
10. Selection and use of computer systems for the clinical laboratory. Region IV meeting of the American Society for Medical Technology, Lexington, KY., September 1983, PACE approved workshop for C.E. credit, invited speaker.
11. Characteristics and utility of various programming languages. Continuing Education Conference, Pathology Department, Presbyterian Hospital, Oklahoma City, OK., April 1983.
12. Clinical laboratory computerization - a user's prospective. Oklahoma State Society for Medical Technology, Oklahoma City, OK., April 1983. Closing address at computer workshop. PACE approved for C.E. credit, invited speaker.
13. New developments in Clinical Chemistry. 19th Annual Oklahoma American Chemical Society Meeting (Student Affiliate), Central State University, Oklahoma City, OK., April 7, 1984, invited speaker.

## CURRICULUM VITAE

Kenneth E. Blick, Ph.D.

page 34

14. What the microcomputer can do for you in the laboratory. Continuing Education for Laboratory Employees of the Oklahoma Indian Health Service, Updates In Management, State of Oklahoma Teaching Hospitals, Oklahoma City, OK., June 6, 1984, invited speaker.
15. "Microcomputer Application in the Clinical Laboratory", Management Workshop for Indian Health Service, held at Anadarko, McAlester, and Claremore, Oklahoma, 1985.
16. "Surgical Pathology Computerization at the University of Oklahoma", present at the Southeast Section of the AACC as part of a Symposium on Laboratory Computerization, Nashville, TN, 1985, invited speaker.
17. Selection of a Clinical Laboratory System, workshop on Laboratory Computerization sponsored by the Capital Section of the AACC, Washington, D.C., 1985, invited speaker.
18. Microcomputers in the Clinical Laboratory, workshop on Laboratory Computerization sponsored by the Capital Section of the AACC, Washington, D.C., invited speaker.
19. "Surgical Pathology Computerization", Pathology Day Conference, University of Oklahoma Health Sciences Center, 1985.
20. "Surgical Pathology Computerization" paper presented at the MedLab Users Group, January, 1986.
21. "Utilization of the Personal Computer in the Clinical Microbiology Laboratory", South Central Association for Clinical Microbiology, Columbus, OH, April 10, 1987, invited speaker.
22. "Laboratory Computerization: Current Status and Future Directions", Utah Society for Medical Technology Spring Seminar, Salt Lake City, Utah, May 5, 1988.
23. "Office Automation Using Microcomputer Networking," roundtable at American Association for Clinical Chemistry annual national meeting in New Orleans, LA, July 1988.
24. An Expert System for the Interpretation of Raw Data from Automated Hematology Instruments", presented at the Second Symposium of Artificial Intelligence, November 3-4, 1988. Sponsored by the Continuing Education and Public Service, OU.
25. "Issues and Concerns When Replacing Your Laboratory Computer", lecture session at Oklahoma County Society for Medical technology, March 3, 1989.
26. "Laboratory Computerization: Past Experience and Future Directions", ClinChem 88, November 7-8, 1988, Springfield, Massachusetts.
27. "Computerization of Anatomic Pathology Using S/36 and PC Network" speaker at Fall ECHO meeting in Boca Raton, Fla., September 25, 1989.

28. "Office Automation in the Laboratory Using Microcomputer Networking", roundtable chaired at Okie-Arkie Bi-State Convention, April 23, 1990.
29. "An Evaluation of the Current Methods for Measuring Cyclosporin", speaker at Oklahoma Transplant Society, Oct 1990.
30. "How to Form a Vendor User Group", invited speaker for Barrett Laboratory Systems, Sacramento, CA, Oct. 1990.
31. "Computerization of the Laboratory Office Using Microcomputer Networking" roundtable at American Association for Clinical Chemistry annual national meeting in Washington, D.C., July 1991.
32. "Laboratory Computerization and Automation: Past, Present, and Future" presented at "Lab Fest '91" April 11, 1991. Sponsored by Baptist Medical Center, invited speaker.
33. "The Use of Computers in the Laboratory" and "Use of Computers for Laboratory Billing" presented at Lab Management Conference, April 1991.
34. Presented Hepatitis Lecture - Journal Club, 1991.
35. Presented Tumor Marker Lecture - Journal Club, 1991.
36. "Computerization of the Laboratory Office Using Microcomputer Networking" roundtable at American Association for Clinical Chemistry annual national meeting in Chicago, IL, July 1992.
37. Participated on Customer Advisory Panel for Tosoh Medics, 1992.
38. Presented paper "Present & Future Developments of Immunoassay at Tosoh Medics, Kansas City, 1993.
39. Presented paper "Evaluation of Tosoh 1200 Auto-Immunoassay Instrument", Tosoh Medics, Kansas City, 1993.
40. Invited speaker, University of Central Oklahoma Association for Computing Machinery, March 1994 meeting.
41. "Laboratory Informatics" presented at American Osteopathic College of Pathologists 28th Midyear Tutorial, Orlando, FL, March 4-6, 1994, invited guest speaker.
42. Visiting Professor, University of Texas Southwest Medical Center, March 17, 1994.
43. Presented "Chemistry Magic Show" as part of National Medical Laboratory Week, Kilpatrick Center, April 9, 1994.
44. Presented workshop "Automation in the Immunoassay Laboratory: Past, Present & Future Trends" at Clinical Ligand Assay Society National Meeting, Orlando, FL April 26-30, 1994.

## CURRICULUM VITAE

Kenneth E. Blick, Ph.D.

page 36

45. "Laboratory Information Systems (LIS): The Year 2000 and Beyond." Presented at CliniChem '95 Symposia, Teaneck, NJ, Oct. 11-14, 1995. Organizer and Chairman.
46. "Automated Immunoassay Systems" Presented at Clinical Ligand Assay Society National Meeting, May 24-27, 1995, Toronto, Canada.
47. Invited speaker, Okie Arkie Annual Meeting April 22-24, 1996, Tulsa, Ok, "LIS - The Year 2000 & Beyond.
48. Presented "Chemistry Magic Show" as part of National Medical Laboratory Week, Kilpatrick Center, April 13, 1996.

### Pathology Continuing Education Sessions

1. Applications on Computer and Quality Control, March 21, 1984.
2. Endocrinology of Reproduction, May 21, 1984.
3. What Microcomputers Can Do for You in the Laboratory, Continuing Education Program, Oklahoma Indian Health Service, Claremore, OK, June 1985.
4. Use of Computers in the Laboratory-Basic Concepts, Update in Clinical Chemistry, Continuing Education, Oklahoma Indian Health Service, Oklahoma City, OK, October 1984.
5. Filing and Retrieving Information on a Microcomputer, Inservice for Laboratory Personnel, SOTH, April 17, 1985.
6. Utilization of RIA for Detection of Tumor Markers, SOTH November 6, 1984.
7. Future Directions in the Radioimmunoassay Laboratory, Inservice for Lab personnel, March 5, 1986.
8. Recent Advances in Laboratory Computerization, Continuing Education, Oklahoma Indian Health Service, Henryetta, OK, April 14 1988.
9. Recent Advances in Laboratory Computerization, Continuing Education, Oklahoma Indian Health Service, Oklahoma City, OK, January 7 and 8, 1988.
10. LOTUS 1-2-3, Inservice for Lab Personnel, November 3, 1988.
11. Overview of Personal Computers, Inservice for lab personnel, October 13, 1988.
12. Database, Inservice for lab personnel, December 8, 1988.
13. Introduction to DOS, Inservice for Lab Personnel, October 1989.
14. Upgrading Your Laboratory Computer System, Inservice for Lab Personnel, March 1989.
15. Application of Computer Programs in the Laboratories, part I and II, December 5 & 12, 1990. Inservice for lab personnel.
16. Computer Spreadsheets, Part I & II, March 13 and April 3, 1990. Inservice for lab personnel.

### D. Consultantships

- |      |   |
|------|---|
| 1988 | Laboratory Computer Systems Development, Duke University, Raleigh-Durham, NC. |
| 1985 | Consultant, Baylor College of Medicine, OB/Gyn, Laboratory Computerization.   |

4 6 6 2 8 5

- 1982-present      Consultant, computer development, clinical laboratory, Tinker Air Force Base, Oklahoma City, Oklahoma; Major Orwell.
- 1982-present      Consultant, clinical laboratory computerization and management, South Community Hospital, Oklahoma City, Oklahoma; Dan Myers and Peter Peak.
- 1982                CAP Inspection for Laboratory Accreditation, Chemistry and Radioisotopic Analysis, St. Johns Hospital, Tulsa, OK.
- 1983                CAP Inspection for Laboratory Accreditation, Chemistry and Radioisotopic Analysis, St. Francis Hospital, Wichita, KS.
- 1982-present      Computer systems development, Department of Dermatology, University of Oklahoma, HSC.
- 1981                Methods development of Coulter 22 analyzer, Dow Chemical Company, Indianapolis, Indiana.
- 1979-82            Methods development in clinical chemistry, Boehringer Mannheim Diagnostics, Indianapolis, Indiana.
- 1980                Evaluation of Hitachi 714 automated chemistry analyzer, Boehringer Mannheim Diagnostics, Indianapolis, Indiana.
- 1981                Evaluation of the Dacos clinical chemistry analyzer, Coulter Instruments, Hialeah, Florida.

E. Professional Service to Community

- 1989                Inspector, CAP Laboratory Accreditation Program, Medical Arts Laboratory Oklahoma City, OK.
- 1989                Inspector, CAP Laboratory Accreditation Program, Columbia, MO Hospital.
- 1988                Inspector, CAP Laboratory Accreditation Program, St. Francis Hospital in Tulsa, OK
- 1982, '83, '84  
'85, '90, 91        Invited speaker, Science Week, Central State University, Edmond, Oklahoma.
- 1978                Science Judge, Eastern Kentucky Science Fair, Morehead University, Morehead, Kentucky.
- 1973-1975        Science Education Advisor, Floyd County Board of Education, Prestonsburg, Kentucky.
- 1974-75            Eastern Kentucky Area Coordinator for Metrication, Prestonsburg, Kentucky.
- 1972-75            Big Sandy Area Health Planning Committee, Community Representative, Prestonsburg, Kentucky.

#### XIV. Administration

##### A. Budget Responsibilities

- |              |   |
|--------------|---|
| 1971-75      | As division Chairman, prepared budgets, 5-year plans, and goals and objectives for a college science department. Also served as chairman of the Faculty Senate for two years with concomitant budget control. |
| 1975-78      | Developed budgets and justification for research and development in areas of clinical chemistry and computerization.  |
| 1978-82      | Developed budgets and justification for a hospital clinical chemistry department and laboratory computer system.  |
| 1982-present | Responsible to monitor budgets in laboratory areas including: laboratory computers, RIA/endocrinology, central processing and receiving, and phlebotomy.  |
| 1982-present | Helped prepare and monitor budgets for research proposal listed in Section IX.  |

##### B. Personnel Management Division

- |              |  |
|--------------|--|
| 1971-75      | Chairman for faculty teaching chemistry, physics, mathematics and engineering.   |
| 1971-75      | Supervision and direction of graduate students performing research in chemistry, University of Kentucky (Summers only) and supervision and direction of staff research in statistics and cardiopulmonary medicine at Highlands Regional Medical, Prestonsburg, Kentucky. |
| 1975-1978    | Supervision and direction of technologists in clinical chemistry and the computer staff at Pathology and Cytology Laboratories, Inc.   |
| 1978-82      | Supervision and direction of technologists in clinical chemistry at Deaconess Hospital, Evansville, Indiana.   |
| 1982-present | Supervision and direction of technologists and other staff in RIA/endocrinology, clinical laboratory support services (phlebotomy, specimen processing, and specimen referral), and laboratory computer systems.   |

##### C. Other

1. Performed administrative functions relative to the planning, design, programming and implementation of laboratory software for three laboratory operations: 1) a cardiopulmonary laboratory/clinic, 2) a large-private clinical laboratory, and 3) a dermatopathology laboratory and clinic.



## CURRICULUM VITAE

Kenneth E. Blick, Ph.D.

page 39

2. Designed and supervised the construction of a clinical chemistry laboratory at Deaconess Hospital, Evansville, Indiana.
3. Performed administrative functions relative to planning, installation and operation of clinical laboratory computer systems at Oklahoma Teaching Hospitals along with required laboratory reorganization requirements.
4. Developed a proposal for the administration, organization and computerization of a centralized material management system for the State of Oklahoma Teaching Hospitals laboratories.
5. Proposed, programmed, designed, and implemented a computer system for anatomic pathology using IBM equipment at the Oklahoma Teaching Hospitals.
6. MedLab - Tandem computer interface for billing for SOTH.
7. Proposal for Centralized Outpatient Phlebotomy for OMH.
8. Proposal for Outpatient Testing Services for OMH.
9. Computerization of Blood Gas Information at OMH.
10. Designed and proposed a Computer system of the Department of Urology, University of Oklahoma.
11. Designed and Proposed a Computer System for the Tumor Registry, University of Oklahoma, to integrate with the existing Surgical Pathology system for the State of Oklahoma Teaching Hospitals.
12. Developed a report evaluating the HELP, PHAMIS, and MEDICUS computer system to operate on our existing Tandem hardware for the State of Oklahoma Teaching Hospitals.
13. Developed a proposal entitled "Reference Laboratory Testing" for a Family Medicine PPO, 1985.
14. Developed a proposal for Clinical Pathology Consultation Services, Department of Pathology, 1985.
15. Developed a complete billing system for the department. Programs for the capture of both Part A and B along with the tracking of billings are part of the system.
16. Developed and implemented programs for automated SNOMED coding of surgical pathology reports.
17. Expanded the surgical pathology programs to handle unlimited overflow of dictations.
18. Have included canned narratives for the gross dictations in all surgical pathology programs.
19. Developed a program for use by the department of Pathology for the generation of color slides.

20. Developed computer program for Cytopathology - "Bad News" letters, 1991.
21. Video Tape - CLIA 88 - Produced and Distributed by Abbott Labs, Santa Fe Conference on CLIA, organized and chaired by Kenneth E. Blick, 1991.
22. Pathology Faculty Retreat, served as work group facilitator, August 1994.

## XV. Professional Growth and Development (Recent)

### A. Clinical Chemistry National Meetings Attended

1. American Association for Clinical Chemistry, New Orleans, 1979.
2. American Association for Clinical Chemistry, Boston, 1980.
3. American Association for Clinical Chemistry, Kansas City, 1981.
4. American Association for Clinical Chemistry, Los Angeles, 1982.
5. American Association for Clinical Chemistry, New York, 1983.
6. American Association for Clinical Chemistry, Washington D.C., 1984.
7. American Association for Clinical Chemistry, Atlanta GA., 1985.
8. American Association for Clinical Chemistry, Chicago, IL, 1986.
9. American Association for Clinical Chemistry, San Francisco, CA, 1987.
10. American Association for Clinical Chemistry, New Orleans, LA 1988.
11. American Association for Clinical Chemistry, Atlanta, GA 1989.
12. American Association for Clinical Chemistry, San Francisco, CA 1990.
13. American Association for Clinical Chemistry, Washington, D.C. 1991.
14. American Association for Clinical Chemistry, Chicago, IL 1992.
15. American Association for Clinical Chemistry, New York City, NY 1993.
16. American Association for Clinical Chemistry, New Orleans, LA 1994.
17. American Association for Clinical Chemistry, Anaheim, CA 1995.

### B. Other Professional Meetings Attended

1. Clinical Laboratory Computerization Conference, National Meeting of Hospital Information Sharing Group, Toronto, Ontario, July 1982.
2. Annual Kentucky State Society for Medical Technology, Louisville, Kentucky, March 1982.
3. Annual Kentucky State Society for Medical Technology, Owensboro, Kentucky, April 1981.
4. Annual Indiana State Society for Medical Technology, Lafayette, Indiana, April 1981.
5. 33rd Annual Southeastern Meeting of the American Chemical Society, Lexington, Kentucky, October 1981.
6. 3rd Annual Conference on Clinical Laboratory Medicine, Lexington, Kentucky, October 1981.
7. Central Indiana Biochemistry Forum, Indianapolis, Indiana, September 1981.
8. Central Indiana Biochemistry Forum, September 1980.

9. Region IV Meeting of the American Society of Medical Technology, Lexington, Kentucky, 1983.
10. Pathology Day Conference, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, April 1982, 1985, 1986, 1987.
11. Computer Workshop, Oklahoma State Society for Medical Technology, Oklahoma City, Oklahoma, April 1983.
12. Annual Conference on Advanced Analytical Concepts, Gatlinburg, Tennessee, May 1983.
13. Annual Conference on Advanced Analytical Concepts, Gatlinburg, Tennessee, May 1982.
14. Annual Conference on Advanced Analytical Concepts, Knoxville, Tennessee, May 1984.
15. Medlab User Group Meetings, Salt Lake City, Utah, 1983, 1984, 1986, 1987, 1988.
16. Symposium on Laboratory Computerization, Nashville, TN, October, 1985.
17. Joint ASTM Meeting on Laboratory Computer Standards for Laboratory Instrument Interfaces, Tampa, Florida, January 1987.
18. MedLab Users Group 1987 Southeast Regional Meeting, Birmingham, Ala, August 21, 1987.
19. IBM Conference on Academic Computing, University of Wisconsin- Madison, October 4-6, 1987.
20. MedLab Users Group 1988 Southeast Regional Meeting, Birmingham Alabama, August 25-26. Conducted a two day workshop on PC downloading from the MedLab Computer Systems.
21. IBM Medical Academic Computing Conference, Dallas, TX, June 18-20, 1988.
22. MedLab Users Group Annual Meeting, Salt Lake City, UT, January 31- February 4. Conducted "hands-on" microcomputer workshop on January 27-18, 1988.
23. MedLab Users Group Annual Meeting, Salt Lake City, UT, January 29- February 1, 1989. Conducted 2 day PC Workshop on downloading from the MedLab Computer System.
23. IBM Academic Computing Conference, Anaheim, CA, June 22-24, 1989.
24. Medlab Users Group Meeting, Murray, UT, January 21-25, 1990.
25. Medlab Users Group Annual Meeting, January 20-24, 1991.
26. IBM Academic Computing Conference, Miami, Fla, June 18-20, 1990, Program Committee.

## CURRICULUM VITAE

Kenneth E. Blick, Ph.D.

page 42

27. AACC National Meeting, San Francisco, CA, July 1990. Presented roundtable "Office Automation on the Clinical Laboratory Using Microcomputers".
28. AACC National Meeting, San Francisco, CA, July 1990. Organized and chaired Focus Topic Session entitled "Laboratory Information Systems".
29. Oklahoma State Association of Pathologists Inc. Annual Meeting, Oklahoma City, OK, Sept. 14-15, 1991.
30. HIMSS Meeting, Participated in roundtable discussion on "Expert Systems", Feb. 11-14, 1991.
31. Helena Laboratories, Focus Group Discussion, Oklahoma City, OK, June 26, 1991.
32. Spring AACC Meeting, Texas Section, Santa Fe New Mexico, March 18-21, 1991.
33. IBM - ACIS Meeting, Dallas, Texas, June 11-14, 1991.
34. Fall AACC Meeting, Texas Section, Houston, Texas October 3-4, 1991.
35. Medlab Users Meeting & Pathlab III Training, Salt Lake City, UT, January 12-23, 1992.
36. Spring AACC Meeting, Texas/SE Section, New Orleans, LA, April 8-11, 1992.
37. International LIMS Conference, June 8-11, 1993, Pittsburg, PA, Keynote speaker.
38. Fall AACC Meeting, Texas Section, Dallas, Texas, November 11-13, 1992.
39. Spring AACC Meeting, Texas Section, Galveston, Texas, March 25-26, 1993.
40. 3M LIS Users Group Meeting, Salt Lake City, UT, February 7-12, 1993.
41. AACC National Meeting, New York City, NY, June 12-15, 1993.
42. 3M LIS Regional Users Group Meeting, Louisville, KY, August 19-20, 1993.
43. AACC 1994 National Organizing Committee Meeting, New Orleans, LA, October & December 1993.
44. Texas Section AACC "New Era in Health Care and Laboratory Medicine", presented New Developments in Hepatitis Testing, Oklahoma City, October, 1994.
45. ALS Pathlab Users Group Meeting, Salt Lake City, UT, January 29-February 1, 1995.
46. AACC Arnold O. Beckman Conference, Charleston, SC, February 5-6, 1995.
47. AACC Divisions Workshop, San Diego, CA, February 2-3, 1996.
48. Bayer Diagnostics 5th Technicon Immuno 1 International Symposium, Paris, France, February 4-8, 1996.

### C. Special Workshops and Courses

1. "Clinical Chemistry Review", 40 hours course credit, University of Virginia, lectures by S. Bakersman, 1978.

2. "Endocrinology Workshop for Laboratory Medicine", sponsored by AACC, Burlington, N.C., 1979.
3. "Cardiovascular Disease Workshop", sponsored by Bioscience Laboratories, St. Louis, Mo., 1979.
4. "Workshop on Acute Myocardial Infarction", sponsored by Veterans Administration, Lexington, Kentucky, 1978 (lectured and conducted a wet laboratory on lipid measurement portion).
5. "Computer Programming on the IBM System 34", one week course, IBM Training Center, Cincinnati, Ohio, 1978.
6. "System Utilities and Implementation - IBM 34", one week course, IBM Training Center, Cincinnati, Ohio.
7. "Computer Programming on the IBM 32", one week course, IBM Training Center, Cincinnati, Ohio, 1976.
8. "System Utilities and Implementation - IBM -32", one week course, IBM Training Center, Cincinnati, Ohio, 1976.
9. "Training Workshop on the Dupont Automated Clinical Analyzer (ACA)", one week course, Dupont Chemical Company, Wilmington, Delaware, 1979.
10. "Training Workshop on the ABL Blood Gas Analyzers (ABL-II and III)", two day course, the London Company, 1981.
11. "Training Workshop on Automated Radioimmunoassay Analysis", one day workshop, sponsored by Becton Dickinson, New Albany, Indiana, 1981.
12. "Workshop on Electronics for the Clinical Laboratory", two days, sponsored by the AACC, New Orleans, Louisiana, 1979.
13. "Workstations", 1 day workshop, sponsored by IBM, Oklahoma City, September, 1984.
14. Database programming on Microcomputers, Oklahoma Center for Continuing Education, Norman, OK, 1985.
15. Advanced Database Programming on Microcomputers, Oklahoma Center for Continuing Education, Norman, OK, 1985.
16. MedLab training, Salt Lake City, Utah, four week course, 1982.
17. "Scientific Bavaria Conference", Munich, Germany, 1985.
18. IBM Health and Life Science Marketing Forum, Dallas, TX, September 1986.
19. Abbott Customer Appreciation Day, Dallas, TX, October 8, 1987.
20. AACC Texas Section - Conference on Therapeutic Drug Monitoring in the Management of Depression, October 30 and 31, 1987.

21. "Recent Advances in Hormone Testing: Application of Monoclonal Antibodies," Boca Raton, FL, November 15-17, 1987.
22. "Artificial Intelligence Applications", University of Oklahoma Health Sciences Center, April 12, 1988.
23. "Anatomy of Artificial Intelligence Systems", University of Oklahoma Health Sciences Center, April 26, 1988.
24. "Knowledge Representation of Artificial Intelligence", University of Oklahoma Health Sciences Center, May 10, 1988.
25. IBM Application System/400 Birthday Celebration, Oklahoma City, OK April 1989. Update on Advances of the AS/400 over the past few years.
26. WordPerfect Training, OU Norman Campus, May, 1989.
27. Pathlab III training, Murray, UT, 3 weeks, 1990.

D. Management Courses/Workshops

1. "Motivational Dynamics", one week course, Control Data Corporation/Deaconess Hospital, Evansville, Indiana, 1980.
2. "Management by Objectives", two day course, Deaconess Hospital, Evansville, Indiana, 1979.
3. "Effective Time Management Workshop", one day, sponsored by AACC, New Orleans, Louisiana, 1979.
4. "Communication Skills Workshop", one week course, Deaconess Hospital, Evansville, Indiana, 1980.
5. "Executive Briefing on Computer Management", IBM sponsored workshop, Oklahoma City, OK, September 1984.
6. "Change Management Workshop for Computer Professionals", IBM sponsored workshop, Oklahoma City, OK, July 1984.
7. "Project Management for Computer Professionals", IBM sponsored workshop, Oklahoma City, OK, August 1984.