

VOID SHEET

TO: License Fee Management Branch

FROM:

RTV

SUBJECT: VOIDED APPLICATION

Control Number:

466146

Applicant:

Oklahoma, Univ. of (35-03176-05)

Date Voiced:

12/31/96

Reason for Void:

Combined with m/c # 465994..

No review accomplished.

Bill Duszynski 1/6/97  
Signature Date

Attachment:

Official Record Copy of  
Voided Action

FOR LFMB USE ONLY

9702030091 970106  
PDR ADOCK 03015184  
C PDR

Final Review of VOID Completed:

- ☒ Refund Authorized and processed  
☐ No Refund Due  
☐ Fee Exempt or Fee Not Required

Comments:

Log completed

Processed by:

☒ Lem

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ML40





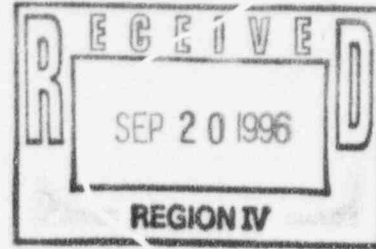
# *The University of Oklahoma*

*Health Sciences Center*

RADIATION SAFETY OFFICE

September 12, 1996

Ms. Billie Gruszynski  
Nuclear Materials Licensing Section  
U.S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064



RE: License #35-03176-05, Control #466146  
#35-03176-04MD, Control #466145  
#35-21035-01, Control #466148

Dear Ms. Gruszynski:

Pursuant to the previous letter we sent you dated August 6, 1996, please be advised that the Interim Chairman of the Radiation Safety Committee, George N. Chacko, M.D., has decided to continue his interim chairmanship through December 1996. The new Chairman of the Radiation Safety Committee will be Kenneth E. Blick, Ph.D., Associate Professor of Pathology and Director of RIA Endocrinology, of The University Hospital. He will assume the responsibilities of the position in January of 1997.

Rebecca Blackstock, Ph.D., Associate Professor Microbiology, of the Oklahoma Health Sciences Center will become the Vice-Chairman also effective January 1997.

Please find enclosed the Curriculum Vitaes for both Dr. Blick and Dr. Blackstock.

I appreciate your assistance in this matter.

Sincerely,

Subhash M. Danak, M.S., D.A.B.R.  
Radiation Safety Officer

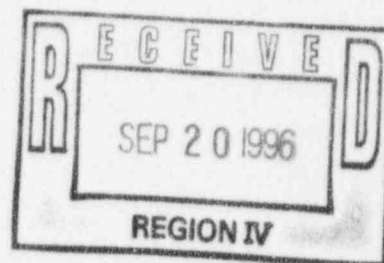
SMD/cl

Enclosures



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 Verda, 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



### 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 Balsame-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. Grant to evaluate and develop automated enzymatic analyses for triglyceride and cholesterol. Funding \$2,000 plus travel, reagents and supplies.
1980-1982	Dow Chemical Company, Indianapolis, Indiana. Grant to evaluate and develop analyses for SGOT, triglyceride and cholesterol on the Coulter 22 analyzer. Funding \$2,000 plus supplies.
1995	Bayer Corporation. Grant to evaluation cortisol on the Immuno 1. Funding \$1,000 plus supplies.
1996	Chiron/Ciba Corning, E. Walpole, Ma. Grant to evaluate Phenytoin and Phenobarbital on the ACS:180. Funding \$2,000 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. VII, 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  $(CF_3)_2CNH$ . *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).
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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.



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.
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**D. Abstracts Peer Reviewed**

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



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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)
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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.



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5. Blick, K.E. "Specifications for a Personal Computer-MedLab Interface", MedLab Users Newsletter, Vol 5, #1, 3 (1986).
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12. K.E. Blick, Computerization of Anatomic Pathology, Pathology Billing, and Office Automation". Application Highlight published by IBM, December 1988.
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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



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22. Blick, K.E., "Automation is the Answer to Some Problems Facing Modern Laboratories", 3M Focus, 1991.
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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.
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**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.
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**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.
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- j. Blick, K.E., editor, Laboratory Information Systems Division Newsletter, March 1988.
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- l. Blick, K.E., Glatt, J.E., co-editors, Laboratory Information Systems Newsletter, October 1988.
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- 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 Radioimmunoassay 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.



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.  |

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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.



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", CliniChem 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.



45. "Laboratory Information Systems (LIS): The Year 2000 and Beyond." Presented at ClinChem '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 Educations 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.   |



- 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.



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.



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.



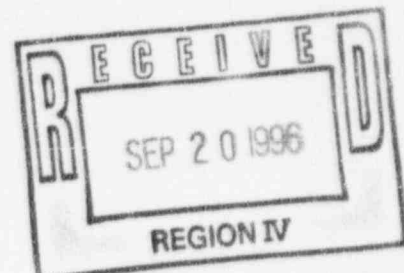
2. "Endocrinology Workshop for Laboratory Medicine", sponsored by AACC, Burlington, N.C., 1979.
3. "Cardiovascular Disease Workshop", sponsored by Bioscience Laboratories, St. Louis, Mo., 1979.
4. "Workshop on Acute Myocardial Infarction", sponsored by Veterans Administration, Lexington, Kentucky, 1978 (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.

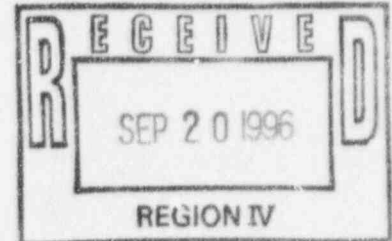




## *CURRICULUM VITAE*

**NAME:**

Rebecca Blackstock, Ph.D.  
Associate Professor of Pediatrics  
Adjunct Associate Professor of  
Microbiology and Immunology

**DATE OF BIRTH:**

February 13, 1943

**EDUCATION:**

B.S. - Microbiology, Oklahoma State University, 1965

M.S. - Medical Microbiology, University of Oklahoma Health Sciences Center, 1968

Ph.D. - Medical Microbiology and Immunology, University of Oklahoma Health Sciences Center, 1972

**FELLOWSHIPS:**

Colin McLeod Pre-doctoral Fellow, 1971-1972

Post-doctoral NIH Fellow, 1972-1975

NCI National Research Service Award, 1975-1976

Post-doctoral Fellow, Tumor Biology Unit, Department of Pathology, College of Medicine, University of Florida, 1972-1976  
(Richard T. Smith, M.D.)

**APPOINTMENTS:**

Associate Professor of Microbiology and Immunology, University of Oklahoma Health Sciences Center, 1996- present.

Adjunct Associate Professor of Pathology, University of Oklahoma Health Sciences Center, 1992-present.

Associate Professor of Pediatrics, University of Oklahoma Health Sciences Center, 1982-1996

Adjunct Associate Professor of Microbiology and Immunology, University of Oklahoma Health Sciences Center, 1983-1996.

Visiting Scientist, Division of Immunological Medicine, Clinical Research Centre, Harrow, Middlesex, England, 1990

Assistant Professor of Pediatrics, University of Oklahoma Health Sciences Center, 1976-1982



Adjunct Assistant Professor of Microbiology and Immunology,  
University of Oklahoma Health Sciences Center, 1976-1983

Post-doctoral Fellow, Department of Pathology College of  
Medicine, University of Florida, 1972-1976

Research Technician III, Infectious Disease Unit, Department of  
Medicine, University of Texas Southwestern Medical School, 1968-  
1969

Research Associate, Department of Microbiology and Immunology,  
University of Oklahoma Health Sciences Center, 1967-1968

**AWARDS AND HONORS:**

Fellow, American Academy of Microbiology  
Phi Kappa Phi  
Phi Sigma  
Sigma Xi  
Colin McLeod Pre-doctoral Fellow  
NCI, National Research Service Award  
OU College of Medicine Alumni Research Scholar

**GRANTS AWARDED:**

Marie Wilkonson Research Award. "Antigens of MCA-induced  
Sarcomas", 1-1-77 to 1-1-78, 5000.00, Principal Investigator

Oklahoma Pediatric Cancer Association. "Antigenic  
Characterization of Sarcoma Membranes", 11-1-76 to 11-1-77,  
5000.00, Principal Investigator

Small Grant Award, College of Medicine, "Evaluation of the  
Reticuloendothelial System in Mice using 99mTechnetium Stannous  
Phosphate", 2-1-78 to 6-31-78, 1500.00, Co-principal investigator

Oklahoma Lupus Association. "Cortison<sup>e</sup> as an Inducer of Lupus  
Nephritis of NZB Mice", 2300.00, Co-principal investigator

Junior Hospitality Equipment Grant - 3625.00

Junior Hospitality Equipment Grant - 4015.00

Small Grant Award, College of Medicine, "Modulation of Immune  
Responsiveness by Cimetidine", 2398.00, Principal Investigator



National Institute of Allergy and Infectious Disease,  
"Cryptococcosis: Regulation of Protection", 1979-1982,  
112,351.00, Principal Investigator

National Cancer Institute. Pediatric Oncology Group Grant, 1978-  
present, 294,841.00, Co-investigator

Research Council Small Grant Award, "T-cell Clones as Probes to  
Immunity in Murine Cryptococcosis", 1983-1984, 2,991.00,  
Principal Investigator

Oklahoma Lupus Association, "MIL in Autoimmunity and  
Tolerance", 1985-1986, 2500.00, Principal Investigator

National Institute of Allergy and Infectious Diseases, "Inhibition of  
Macrophage Phagocytosis in Murine Cryptococcosis", 1985-1988,  
178,833.00, Principal Investigator

College of Medicine Alumni Research Fund, "Studies of a  
Suppressor Cell Mechanism in Murine Cryptococcosis", 1988-  
1989, 18,000.00, Principal Investigator

Presbyterian Health Foundation, "Inhibition of Macrophage  
Phagocytosis in Cryptococcosis", 1988-1989. 17,609.00, Principal  
Investigator

Applied Immune Sciences, "Safety of an Extracorporeal Silica Gel  
Hemoperfusion Device, Cytosorb SS, in Normal and Septic Adult  
Baboons: A Feasibility Study", 32,000.00, Co-investigator. 1992.

Presbyterian Health Foundation. "Pediatric Program in Molecular  
Medicine", \$670,000. Co-investigator. 1992-1995.

#### **TEACHING:**

**University of Oklahoma Health Sciences Center- 1965-68,  
1968-72**

Microbiology and Immunology Lab - Medical Students

**University of Florida College of Medicine 1972-1976**

Immunology - Graduate Students

Tumor Biology - Graduate Students

**University of Oklahoma Health Sciences Center: 1976 -**

Microbiology and Immunology - medical students, dental  
students, physician associate students

Microbiology and Immunology - Laboratory and small  
group discussions - medical, dental, physician  
associate



Advanced Immunology - graduate students  
 Immune Mediated Diseases - graduate students  
 Immunology - graduate and medical technology students  
 Serology - medical technology students  
 Pediatric clerkship - medical students  
 Department of Pathology Core Lectures - residents  
 Department of Pathology Clerkship - medical students  
 Special Problems in Microbiology - graduate students  
 Rotation in Clinical Immunology - residents  
 Rotation in Clinical Immunology - medical technology students  
 Developed Computerized Teaching Program -  
     Laboratory Evaluation of Immunodeficiencies  
 Research for the Master's Thesis  
 Research for the Ph.D. Dissertation  
 Microbiology and Immunology - dental students

**CONFERENCES AND SEMINARS:**

Pediatric Research Conference  
 Research Seminar - Department of Radiology  
 Research Seminar - Department of Microbiology  
 Research Seminar - Department of Pathology  
 Pediatric Grand Rounds  
 Mercy Hospital Clinical Conference  
 CMR Highschool Leadership Program  
 Putnam City Central Junior High - Gifted and Talented Program  
 Medicine/Pediatric Joint Research Conference  
 University of Florida College of Medicine  
 Noble Foundation  
 Pediatric Infectious Diseases Conference  
 Pediatric Infectious Disease Research Seminar  
 Combined NIH Training Grant Seminar  
 Pathology Research Seminar  
 National Institute of General Medical Sciences -  
     Invited Seminar

**SOCIETY MEMBERSHIPS:**

American Academy of Microbiology  
 American Society for Microbiology  
 American Association of Immunologists  
 American Association for the Advancement of Science  
 Oklahoma Academy of Science  
 Society of the Sigma Xi  
 Medical Mycological Society of the Americas  
 Pediatric Oncology Group



Society for Experimental Biology and Medicine  
Southwest Section of the Society for Experimental Biology and  
Medicine  
The Society for Leukocyte Biology

- NATIONAL SYMPOSIA:** 1980. Invited speaker. ASM Symposium on Host-parasite Interactions in the Human Mycoses.
1980. Invited participant at National Cancer Institute Conference on Surface Markers in Acute Lymphocytic Leukemia.
1983. Invited speaker American Society for Microbiology round table discussion on "The Interaction of Lymphocytes with Fungi".
1985. Convener session on Pathogenesis of Fungi. Annual Meeting of the American Society for Microbiology.
1985. Convener session on Immunology and Virology, Missouri Valley Branch ASM
1994. Invited speaker, International Society for Human and Animal Mycology, Adelaide, Australia
1996. Invited speaker, International Symposium on Cryptococcus and Cryptococcosis, Paris, France
1997. Invited speaker, International Society for Human and Animal Mycology, Parma, Italy.

**NATIONAL  
COMMITTEES:**

- Ad hoc Reviewer - NIAID AIDS Review Group -  
National Institutes of Health - 1988
- Ad hoc Reviewer - NIAID Bacteriology-Mycology Study Section 2  
- 1989
- Ad hoc Reviewer - Research Administration Division, Extramural  
Research Programs, Canada. 1994.
- Reviewer - British Columbia Health Research Foundation. 1994 -  
present.

**UNIVERSITY  
COMMITTEES:**

- College of Medicine Small Grant Awards  
Review Committee, 1982-88



Faculty Senate Alternate, 1982-1983

Dept. of Microbiology and Immunology • Nobel Foundation  
Predoctoral Fellowship Selection Committee, 1984

Radiation Safety Committee, 1987-1989, 1996-present.

Biomedical Research Support Grant Committee, 1987

College of Medicine Research Convocation Steering Committee,  
1987-1988

University Council on Faculty Awards and Honors, 1987-1990

College of Medicine Centennial Committee, 1989

Chairman, University Council on Faculty Awards and Honors,  
1989-1990

Chairman, College of Medicine Academic Misconduct Board,  
1989, 1992

Chairman, College of Medicine Student Appeals  
Committee 1990-1993

Department of Pediatrics Research Space Committee, 1990..

Department of Microbiology and Immunology, R. A. Patnode  
Research Award Committee, 1989-1992

University Faculty - Staff Campaign Committee, 1990.

Department of Pediatrics Advisory Committee to the Chairman on  
Research, 1991-1992.

Department of Microbiology and Immunology,  
Immunology teaching and syllabus preparation committee, 1992-  
1993

Faculty Appeals Board, 1992-1996.

Department of Pediatrics Research Goals  
Committee, 1992.



Committee on Teaching and Educational Policy, 1993- present.  
1993-1996

Chairman, Committee on Teaching and Educational  
Policy, 1993-1994.

College of Medicine Admissions Committee, 1994- present

Graduate Education Research Day Judge, 1995.

Department of Microbiology and Immunology, Orientation  
Committee, 1996-1997

Department of Microbiology and Immunology, Honors and Awards  
Committee, 1996-1997

Department of Microbiology and Immunology, Space Committee,  
1996-1997

Academic Program Council, 1996- present

**EXTRAMURAL  
COMMITTEES:**

Sigma Xi Nominations Committee, 1984

Sigma Xi Outstanding Highschool Teacher Selection Committee,  
1987

Sigma Xi Research Awards Selection Committee,  
1987

Sigma Xi Nominations Committee, 1988

Sigma Xi Research Awards Selection Committee, 1989

Presbyterian Health Foundation Small Grants Awards Committee,  
1989.

Ad Hoc Reviewer, VA Merit Review, 1987, 1988, 1991, 1993

**AD HOC REVIEW FOR:** Infection and Immunity  
Journal of Immunology  
Journal of Medical and Veterinary Mycology  
Regional Immunology  
Mycopathologia  
Clinical Microbiology Reviews



Journal of Immunology and Immunopathology  
American Journal of Tropical Medicine and Hygiene

**GRADUATE STUDENTS:** Major Professor or Co-director of research:

Robert Fromptling, Ph.D.

Barbara Robinson, Ph.D.

Susan Banner, M.S.

Nancy Hernandez, M.S.

Graduate Committees: 14 Ph.D. and 7 M.S. candidates-  
Departments of Microbiology, Pathology and  
Biochemistry

**CHILDREN'S HOSPITAL  
OF OKLAHOMA:**

Affiliate Staff 1976-present

Hematology-Oncology Service 1976-present

Director - Immunology Laboratory 1976-1995.

Laboratory Staff Committee 1976-1995.

**COMMUNITY:**

Arts Festival Volunteer, 1988, 1989

Hefner Streak Volunteer, 1989, 1990

Oklahoma Run Volunteer, 1990

Pi Beta Phi Scholarship Committee, 1991, 1992

CMR Telethon Volunteer, 1988, 1990

CMR "Salute to Young Leaders" symposium 1989

Presentation to Putnam City Junior Highschool "Gifted and  
Talented" class on "Careers in Science", 1989

Mentor for highschool and college summer research programs,  
1977, 1978, 1982, 1983, 1989, 1992, 1993, 1994, 1995

Mentor for CMR summer scholar, 1995

Opening Night Volunteer, 1991

Wileman's Belle Isle Association - Board of Directors,  
Vice-President, 1995-present.



## PUBLICATIONS

1. Blackstock R, RM Hyde and FC Kelly. Inhibition of fibrinogen reaction by polysaccharide of encapsulated Staphylococcus aureus. J Bacteriol 96:799-803, 1968.
2. Blackstock R and FC Kelly. Comparison of staphylococcal clumping factor and protein A. J Bacteriol 96:855-856, 1968.
3. Johanson WG, R Blackstock, AK Pierce and JP Sanford. The role of bacterial antagonism in pneumococcal colonization of the human pharynx. J Lab Clin Med 75:946-952, 1970.
4. Blackstock R and RM Hyde. Comparison of the ease of tolerance induction in thymus and bone marrow of three strains of mice. Cell Immunol 9:65-67, 1973.
5. Lankford J, R Blackstock, V Szatolowicz and RM Hyde. The effect of allogeneic spleen cells on the induction of immunologic tolerance. Cell Immunol 14:163-170, 1974.
6. Blackstock R and RM Hyde. The role of thymus and bone marrow in immunologic competence. Part I. Southern Med J 69:97-109, 1976.
7. Blackstock R, RM Hyde and DL Maserang. The role of thymus and bone marrow in immunologic competence. Part II. Southern Med J 69:209-215, 1976.
8. Blackstock R, RD Schimpff and RT Smith. Heterogeneity of the antigens solubilized from chemically induced sarcomas by hypertonic KCL. Proc Soc Exptl Biol Med 157:354-357, 1976.
9. Blackstock R. Antigens of chemically induced sarcomas: Their possible origins and interrelationships. Southern Med J 71:586-590, 1978.
10. Favor LF, M Tarpay and R Blackstock. Septicemia in children with cancer. Southern Med J 72:132-135, 1978.
11. Fromtling RA, R Blackstock, NK Hall and GS Bulmer. Kinetics of lymphocyte transformation in mice immunized with viable avirulent forms of Cryptococcus neoformans. Infect Immun 24:449-453, 1979.
12. Fromtling RA, R Blackstock and GS Bulmer. Protection of mice by immunization with an avirulent pseudohyphal form of Cryptococcus neoformans. Mycopathologia 69:179-181, 1979.
13. Humphrey GB, R Blackstock and J Filler. Cell surface markers in acute lymphoblastic leukemia. Annals of Clin Lab Sci 10:169-180, 1980.



14. Fromtling RA, R Blackstock and GS Bulmer. Immunization and passive transfer of immunity in murine cryptococcosis. In ES Kuttin and GL Baum (eds) Proceedings, VII Congress of the International Society for Human and Animal Mycology. Excerpta Medica, Netherlands, pp 122-124, 1980.
15. Pullen DJ, JM Falletta, WM Crist, LB Vogler, B Dowell, GB Humphrey, R Blackstock, J van Eys, MD Cooper, RS Metzgar and EF Meydrech. Southwest Oncology Group experience with immunologic phenotyping in acute lymphocytic leukemia of childhood. Cancer Res 41:4802-4809, 1981.
16. Hall NK and R Blackstock. In vitro production of specific antibody to Cryptococcus neoformans by hybridomas. Sabouraudia 19:157-160, 1981.
17. Vogler LB, WM Crist, AM Sarraf, DJ Pullen, AA Bartolucci, JM Falletta, B Dowell, GB Humphrey, R Blackstock, J van Eys, RS Metzgar, MD Cooper. An analysis of clinical and laboratory features of acute lymphocytic leukemias with emphasis on 36 children with pre-B leukemia. Blood 58:135-140, 1981.
18. Blackstock R. In vitro methods for detection of circulating immune complexes. Ann Clin Lab Sci 11:262-268, 1981.
19. Liu M-B, R Blackstock and RM Hyde. A rapid method to produce anti-gentamicin antibody. Antibiotics 34:898-902, 1981.
20. Bodowle B, RT Acton, BO Barger, R Blackstock, WM Crist, RCP Go, GB Humphrey, and J Dearth. Properdin factor B and acute lymphoblastic leukemia (ALL). Cancer 50:2369-2371, 1982.
21. Robinson BE, NK Hall, GS Bulmer, and R Blackstock. Suppression of responses to cryptococcal antigen in murine cryptococcosis. Mycopathol 80:157-163, 1982.
22. Blackstock R and NK Hall. Immunosuppression by avirulent, pseudohyphal forms of Cryptococcus neoformans. Mycopathol 80:95-99, 1982.
23. Morgan MA, R Blackstock, GS Bulmer, and NK Hall. Modification of macrophage phagocytosis in murine cryptococcosis. Infect Immun 40:493-500, 1983.
24. Wheeland RG, RD Thurmond, WA Gilmore, and R Blackstock. Chronic blepharitis and pyoderma of the scalp: An immune deficiency state in a father and son with hypercuperemia and decreased intracellular killing. Ped Derm 1:134-142, 1984.
25. Blackstock R and NK Hall. Nonspecific immune suppression by Cryptococcus neoformans infection. Mycopathol 86:35-43, 1984.



26. Hall NK, KC Maluf and R Blackstock. Functional testing and chemical composition of cryptococcal extracts. *Sabouraudia* 22:439-442, 1984.
27. Blackett PR, E Koren, R Blackstock, D Downs and C-S Wang. Hyperlipidemia in acute lymphoblastic leukemia. *Ann Clin Lab Sci* 14:123-129, 1984.
28. Matson JR, HF Krous and R Blackstock. Diphenylhydantoin induced hypersensitivity reaction with interstitial nephritis. *Human Pathol* 16:94-96, 1985.
29. Humphrey GB, R Blackstock, JM Falletta, RS Metzgar, ER Richie, DJ Pullen, JM Boyett, JJ Shuster, MA Roper, EC Russell, DH Mahoney, and AH Ragab. An analysis of the presence of Fc receptors on bone marrow lymphoblasts in acute lymphoblastic leukemia. A Pediatric Oncology Group Study. *Cancer* 56:1995-2000, 1985.
30. Blackstock R, JM McCormack and NK Hall. Induction of a macrophage suppressive lymphokine by soluble cryptococcal antigens and its association with models of immunologic tolerance. *Infect Immun* 55:233-239, 1987.
31. Blackstock R and NC Hernandez. Inhibition of phagocytosis in cryptococcosis: Phenotypic analysis of the suppressor cell. *Cellular Immun* 114:174-187, 1988.
32. Blackstock R, NK Hall and NC Hernandez. Characterization of a suppressor factor that regulates macrophage phagocytosis in murine cryptococcosis. *Infect Immun* 57:1773-1779, 1989.
33. Blackstock R and NC Hernandez. Characterization of the macrophage subset affected and its response to a T suppressor factor (TsFmp) found in cryptococcosis. *Infect Immun* 57:2931-2937, 1989.
34. Blackstock, R, M. Zembala, and G.L. Asherson. Functional equivalence of cryptococcal and haptene specific T suppressor factor (TsF). I. Picryl and oxazolone specific TsF, which inhibit transfer of contact sensitivity, also inhibit phagocytosis by a subset of macrophages. *Cell. Immunol.* **136**:435-447, 1991.
35. Blackstock, R., M. Zembala and G.L. Asherson. Functional equivalence of cryptococcal and haptene specific suppressor factor (TsF). II. Monoclonal anti-cryptococcal TsF inhibits both phagocytosis by a subset of macrophages and transfer of contact sensitivity. *Cell. Immunol.* **136**:448-461, 1991.
36. Stevens, DA, JE Domer, R Ashman, R Blackstock and E Brummer. 1994. Immunomodulation in the mycoses. *J Med Vet Mycol.* **32** (suppl 1): 253-265.
37. Blackstock, R. 1996. Cryptococcal capsular polysaccharide utilizes an antigen presenting cell to induce a T-suppressor cell to secrete TsF. *J Med Vet Mycol* **34**:19-30.



## BOOK CHAPTERS

1. Lankford J, R Blackstock and GB Humphrey. 1978. Immunosuppression and serum inhibitors in human leukemia. In Naturally Occurring Biological Immunosuppressive Factors and Their Relationship to Disease. pp 37-62. Russell H. Neubauer (ed), CRC Press, Boca Raton, Fla.
2. Blackstock R and GB Humphrey. 1982. Surface Markers in the Characterization of Leukemias. In Cancer Research, Vol XIX: Tumor Markers. pp 3-51. H Busch and CC Yeoman (eds), Academic Press, New York.
3. Pullen DJ for WM Crist, JM Falletta, JM Boyett, M Roper, B Dowell, J van Eys, GB Humphrey, D Head, BL Brock, R Blackstock, RS Metzgar, and MD Cooper. 1983. A Pediatric Oncology Group Classification Protocol for Acute Lymphocytic Leukemia (ALinC 13): Immunologic Phenotypes and Correlation with Treatment Results. In Leukemia Research: Advances in Cell Biology and Treatment. pp 221-239. SB Murphy and JR Gilbert (eds), Elsevier Science Publishing Co., Inc.
4. Humphrey GB, LV Allen, R Blackstock, PC Comp, LE DeBault, CT Esmon, A Harriman, FA Holloway, HF Krous, M Mojarad, HL Stone, and R Wierimaa. 1985. pp 333-345. Thrombogenic Potential of Phosphatidylserine-containing Liposomes. In Receptor-Mediated Targeting of Drugs. G Gregoriadis, G Poste, J Senior and A Trouet (eds), Plenum Publishing Corporation.

## ABSTRACTS

1. Johanson WG, JP Sanford, AK Pierce and R Blackstock. Bacterial antagonism: Viridans streptococci vs. pneumococci. Clin Res 17:369, 1969.
2. Blackstock R, RD Schimpff and RT Smith. Separation of molecular species in KC1 solubilized tumor extracts by ultrafiltration. Fed Proc 34:4665, 1975.
3. Blackstock R. Study of methylcholanthrene-induced sarcoma cell membranes by cell surface iodination. Fed Proc 35:547, 1976.
4. Fromtling RA, R Blackstock and GS Bulmer. Lymphocyte blastogenic responses in mice sensitized with viable pseudohyphal forms of Cryptococcus neoformans. VII Congress of the International Society for Human and Animal Mycology. p 164, 1979.
5. Fromtling RA, R Blackstock, NK Hall and GS Bulmer. Lymphocyte transformation of spleen cells from mice immunized with live, avirulent forms of Cryptococcus neoformans. Abstracts of the Annual Meeting of the ASM. p 371, 1979.



6. Fromtling RA, R Blackstock and GS Bulmer. Cryptococcus neoformans. Immunization and passive transfer of immunity in mice. Proc Amer Inst Biol Soc National Meeting, Mycol Soc Am Newsletter 30:20, 1979.
7. Blackstock R and NK Hall. Immune suppression by Cryptococcus neoformans. Abstracts of the Annual Meeting of the ASM. p 329, 1980.
8. Hall NK and R Blackstock. *In vitro* production of specific antibody to pseudohyphal Cryptococcus neoformans by hybridomas. Abstracts of the Annual Meeting of the ASM. p 319, 1980.
9. Robinson BE, R Blackstock, NK Hall and GS Bulmer. 1981. Functional subpopulations of lymphocytes in murine cryptococcosis. Abstracts of the Annual Meeting of the ASM. p 323, 1981.
10. Blackstock R and NK Hall. Suppression of the immune response to an unrelated antigen in murine cryptococcosis. Abstracts of the Annual Meeting of the ASM. p 325, 1981.
11. Humphrey GB, R Blackstock, JM Falletta, R Metzgar, J van Eys, ER Richie, WM Crist, MD Cooper, DJ Pullen, J Shuster, J Boyett, H Mauer, VM Whitehead. Expression of Fc and/or complement receptors on "ontologically immature and mature phenotypes" in acute lymphoblastic leukemia (ALL). Experimental Hematology 9(suppl 9):79, 1981.
12. Humphrey GB, R Blackstock, JM Falletta, R Metzgar, J van Eys, ER Richie, WM Crist, MD Cooper, DJ Pullen, J Shuster, J Boyett, H Maurer, VM Whitehead. Prognostic significance of Fc and complement receptors in acute lymphoblastic leukemia (ALL) and implication of leukemia phenotypes and normal lymphocyte ontogeny. Blood 58(5) Suppl. 1:135a, 1981.
13. Krous HF, R Blackstock and JR Matson. Diphenylhydantoin interstitial nephritis - an immunological appraisal. Lab Invest 46:9P, 1982.
14. Blackstock R, BE Robinson, GS Bulmer and NK Hall. Suppressor cells in cryptococcosis. Abstracts of the Annual Meeting of the ASM. p 340, 1982.
15. Morgan M, R Blackstock and NK Hall. Modification of macrophage phagocytosis in cryptococcosis. Abstracts of the Annual Meeting of the ASM. p 340, 1982.
16. Bodowle B, R Acton, B Barger, R Blackstock, W Crist, R Go, G Humphrey, A Ragab, T Vietta, and J Dearth. Properdin factor B (Bf) phenotypes predict risk of contracting acute lymphocytic leukemia (ALL). Blood 58(5) Suppl. 1:136a, 1981.
17. Hall NK, GS Bulmer and R Blackstock. Soluble suppressor factors in murine cryptococcosis. Abstracts of the XIII International Congress of Microbiology. p 164, 1982.



18. Blackstock R, GS Bulmer and NK Hall. Suppressor cell populations in murine cryptococcosis. Abstracts of the XIII International Congress of Microbiology. p 164, 1982.
19. Blackett PR, CS Wang, E Koren, J Fesmire, R Blackstock, R Nitschke and GB Humphrey. Hyperlipidemia in acute lymphoblastic leukemia. *Clinical Res* 30(3):897A, 1982.
20. Hall NK, K Maleuf and R Blackstock. Functional testing and chemical composition of cryptococcal extracts. Abstracts of the Annual Meeting of the ASM. 1984.
21. Humphrey GB, J Boyett, B Dowell, TH Kim, W Crist, E Richie, R Griffith, R Blackstock. Complement receptor positive (CR+) acute lymphocytic leukemia (ALL) is unevenly distributed among the B and T lineage phenotypes of ALL and appears to lack distinguishing clinical features independent of prognostic significance. Abstracts of the AACR, 1984.
22. Blackstock R and NK Hall. Regulation of macrophage phagocytosis in murine cryptococcosis. Proceedings of the Annual Meeting of the ASM. p 364, 1985.
23. Wheeland RG, RD Thurmond, WA Gilmore and R Blackstock. Chronic blepharitis and pyoderma of the scalp: An immune deficiency state in a father and son with hypercupremia and decreased intracellular killing. *Ped Derm News* 3:40, 1984.
24. Blackstock R and NC Hernandez. Characterization of a phagocytosis inhibiting lymphokine (PIL) occurring in murine cryptococcosis. *J Leuk Biol* 42:415, 1987.
25. Blackstock R, NK Hall and NC Hernandez. Further analysis of PIL, a phagocytosis-inhibiting lymphokine occurring in cryptococcosis. Abstracts of the Annual Meeting of the ASM. p 403, 1988.
26. Blackstock R, NC Hernandez and NK Hall. Macrophage regulation in murine cryptococcosis. Abstracts of the X International Congress of the International Society for Human and Animal Mycology. p 103, 1988.
27. Blackstock R and NC Hernandez. Inhibition of macrophage phagocytosis in cryptococcosis: Production of a T-T hybridoma which produces the suppressor factor. Proceedings of the Annual Meeting of the ASM. p 479, 1989.
28. Blackstock R. Requirements for a T-T hybridoma to produce a T-suppressor factor for macrophage phagocytosis (TsFmp) found in cryptococcosis. Proceedings of the 7th International Congress of Immunology. p 772, 1989.



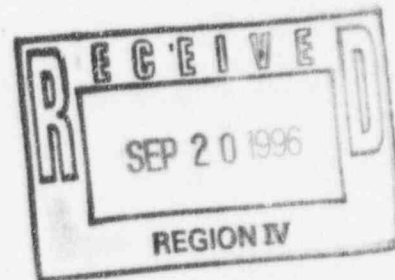
29. Blackstock, R, M Zembala, and GL Asherson. 1991. Anti-picryl TsF inhibits phagocytosis in the same manner as anti-cryptococcal TsF: The activity is antigen independent. *The FASEB Journal* 5: A1706.
30. Blackstock, R, M Zembala, and GL Asherson. Anti-cryptococcal T-suppressor factor for macrophage phagocytosis (TsFmp) inhibits cutaneous sensitivity (CS) responses in the same manner as anti-picryl TsF. Abstracts of the Annual Meeting of the ASM, 417, 1991.
31. Blackstock, R, M Zembala, and GL Asherson. 1991. Anti-cryptococcal TsF which inhibits phagocytosis by macrophages and anti-haptene TsF which mediates release of macrophage suppressor factor (MSF) are functionally equivalent. Proceedings of the XI International Congress of the International Society for Human and Animal Mycology.
32. Blackstock, R. Responses of regulatory T cells in cryptococcosis. Proceedings of the XII International Congress of the International Society for Human and Animal Mycology.
33. Blackstock, R. 1995. Inhibition of the suppressor cell response to cryptococcal capsule can protect infected mice from loss of DTH and IL-2 responses to a non-capsular cryptococcal antigen. Abstracts of the Annual Meeting of the ASM., 103.
34. Polikandritou, M., Schafer, F., Blackstock, R. and Murphy, J.W. 1996. Liposomes as a potential immunoadjuvant and carrier for a cryptococcal vaccine. Abstracts of the American Association of Pharmaceutical Scientists, submitted.
35. Blackstock, R. 1996. Regulation of immune response by T cells. Abstracts of the 3rd International Conference on Cryptococcus and Cryptococcosis. in press.

#### PAPERS PRESENTED

1. Blackstock R and FC Kelly. Relationship of staphylococcal capsules and the clumping reaction. Oklahoma Academy of Science, 1967.
2. Blackstock R and RM Hyde. Cellular basis of immunologic tolerance. American Society for Microbiology, Missouri Valley Branch, 1972.
3. Blackstock R. Membrane antigens of methylcholanthrene induced fibrosarcomas. Southwestern Section of the Society for Experimental Biology and Medicine, 1977.
4. Blackstock R and GS Bulmer. Regulation of host defenses in cryptococcosis. Invited presentation at the ASM symposium "Host-parasite Interactions in Human Mycoses". 1980.
5. Blackstock R. *In vitro* methods for detection of circulating immune complexes. Annual Meeting of the Association of Clinical Scientists, Chicago, Illinois, 1980.



6. Blackstock R. Immune suppression by Cryptococcus neoformans. Invited presentation at Collegiate Oklahoma Academy of Sciences symposium "Immunity and Disease". 1981.
7. Blackstock R and NC Hernandez. Phenotype and genetic restrictions of the suppressor cell for macrophage phagocytosis. Missouri Valley Branch of the ASM, 1988.
8. Hall, NK, PA McHale, R Blackstock and C Roberts. 1988. Computer assisted instruction: Replacing traditional lectures in medical school. IBM Academic Conference. Dallas, Texas.
9. Blackstock R, M Zembala, L Al-Imara, L Gao and GL Asherson. Inducible T-T hybridoma which makes antigen specific T suppressor factor. British Society for Immunology, April, 1991.
10. Asherson, GL, R Blackstock, and M. Zembala. I-E restricted, inducible T cell hybridoma: Involvement of Vbeta8 in the production of antigen specific T suppressor factor (TsF) and presence of Vbeta8 determinant on its antigen nonbinding chain. Joint meeting of the BSI and SFI, October, 1991.



466146





UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

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

August 20, 1996

The University of Oklahoma  
Health Sciences Center  
ATTN: Subhash Danak  
Radiation Safety Officer  
P. O. Box 26901  
Oklahoma City, Oklahoma 73190

SUBJECT: ACKNOWLEDGMENT OF REQUEST FOR LICENSING ACTION

REFERENCE: LETTERS DATED JULY 15 AND AUGUST 6, 1996

We have completed the administrative review and initial processing of your application.

During the initial processing no omissions/deficiencies were identified. However, your August 6, 1996, letter stated that Dr. Chacko has resigned as Interim Chairman and you will submit an alternate as soon as possible. In conversation with Ms. Billie Gruszynski on August 20, 1996, Mr. Danak stated that a name would be submitted after the first of September since the recommendations has yet to go through at least two committees. We will expect to receive correspondence soon after the first of September 1996 relaying the name of the new Interim Chairman. Please note that the technical review may identify additional omissions in the submitted information or technical issues that require additional information.

Amendment actions are normally processed within 30 days after beginning review, unless the technical review identifies:

- Major technical deficiencies
- Decommissioning/decontamination activities are required before an application can be completed
- Confirmatory closeout surveys after decontamination/decommissioning activities are required before a license can be terminated or a facility removed from the license
- Policy issues are identified that require input and coordination with other NRC Regional offices, Agreement State offices, or NRC's Office of Nuclear Materials and Safeguards

A copy of your correspondence has been forwarded to our License Fee and Accounts Receivable Branch, Office of the Controller, who will contact you separately if the appropriate license fee has not been submitted for your request, or for billing if your request is subject to full cost recovery.



The University of Oklahoma

-2-

Any correspondence about this application should reference the Control number listed above.

Sincerely,

Original Signed By  
Billie Gruszynski

Billie Gruszynski (Ms.)  
Nuclear Materials Licensing Branch

License: 35-03176-05  
Docket: 030-15184  
Control: 466146



To receive a copy of this document, indicate in the box "C" - Copy without attachment/enclosure "E" - Copy with attachment/enclosure "N" - No Copy

OFFICE	RIV:A0:NMLB	N						
NAME	BGruszynski	Bg						
DATE	8/20/96							



## LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH  
DIVISION OF ACCOUNTING AND FINANCE  
OFFICE OF THE CONTROLLER  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001UNIVERSITY OF OKLAHOMA  
HEALTH SCIENCES CENTER  
ATTN: SUBHASH M. DANAK, M.S., D.A.B.R.  
RADIATION SAFETY OFFICER  
1000 STANTON L. YOUNG BOULEVARD  
LIBRARY 176  
OKLAHOMA CITY, OK 73190

## TYPE OF ACTION

- ☐ NEW LICENSE  
☐ RENEWAL OF LICENSE  
☒ AMENDMENT TO LICENSE

REQUESTED DATE

7-15-96

LICENSE NUMBER

35-03176-04MD 35-03176-05 35-21035-01

CONTROL NUMBER

4466145, 466146, 466148 ATN: RITA MESSIER

## I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3C	\$	\$	\$ 520.00
4B	\$	\$	\$ 410.00
7B	\$	\$	\$ 580.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(S) DUE	\$	1,510.00
PAYMENT RECEIVED	\$	
AMOUNT DUE	\$	1,510.00

☒ Your request was received without the prescribed application fee.

☐ We received your Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

SIGNATURE -- LICENSE FEE ANALYST

RITA MESSIER

LFDCB

REMessier

7/25/96

LFDCB

*Rita Messier*

Distribution:

Pending Fee File

LFARB R/F (2)

OC/DAF RF  
OC/DAF/SE(LF-3.2.7)  
Region IV

DATE

7-25-96





# The University of Oklahoma

Health Sciences Center

RADIATION SAFETY OFFICE

August 6, 1996

Ms. Billie Gruszynski  
Nuclear Materials Licensing Section  
U.S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064

RE: License #35-03176-05, Control #466146  
#35-03176-04MD, Control #466145  
#35-21035-01, Control #466148



Dear Ms. Gruszynski:

Pursuant to your telephone instructions yesterday, I am informing you that the Interim Chairman of the Radiation Safety Committee, George N. Chacko, M.D. has resigned. I will notify you regarding the appointment of the next interim chairman as soon as the appointment has been made. The amendment fees are being processed at this time.

I appreciate your assistance in this matter.

Sincerely,

Subhash M. Danak, M.S., D.A.B.R.  
Radiation Safety Officer

/lsv

NRC8696.ltr

466146



BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
REGIONAL LICENSING SECTIONS

(FOR LEMS USE)  
INFORMATION FROM LTS

PROGRAM CODE: 03234  
STATUS CODE: 0  
FEE CATEGORY: 4B  
EXP. DATE: 20060131  
FEE COMMENTS: 4B FEE 1/10/86  
DECOM FIN ASSUR RECD: Y

1996 JUL 25 PM 1:28

LICENSE FEE TRANSMITTAL

A. REGION IV

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: OKLAHOMA, THE UNIVERSITY OF  
RECEIVED DATE: 9/27/96  
DOCKET NO.: 3015184  
CONTROL NO.: 466146  
LICENSE NO.: 35-03176-05  
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: 4  
CHECK NO.: 4

3. COMMENTS

SIGNED  
DATE

Jaqueline D. Bucho  
9-23-96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED ✓)

1. FEE CATEGORY AND AMOUNT: 4B \$410

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT ✓  
RENEWAL  
LICENSE

3. OTHER

SIGNED  
DATE

Rita Massier   
 8/15/96

Log	<u>Jul 3 #</u>
Remitter	
Check No.	<u>434621</u>
Amount	<u>\$410</u>
Fee Category	<u>4B</u>
Type or fee	<u>amd</u>
Date Check Rec'd.	<u>8/15/96</u>
Date Completed	<u>8/15/96</u>
By:	<u>Ren</u>





# *The University of Oklahoma*

## *Health Sciences Center*

RADIATION SAFETY OFFICE

July 15, 1996



Mr. Jack Whitten  
Senior Health Physicist  
Nuclear Materials Licensing Section  
United States Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064

RE: **LETTER OF INFORMATION** Regarding Licenses: #35-03176-01  
#35-03176-05  
#35-03176-06  
#35-03176-04MD  
#35-21035-01

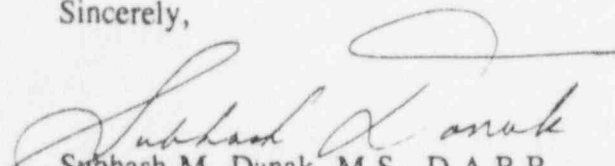
Dear Mr. Whitten:

For your information, A.M. Chandler, Ph.D., completed his term as Chairman of the University of Oklahoma Health Sciences Center Radiation Safety Committee on June 30, 1996. George N. Chacko, M.D. has accepted the Chairmanship of the Radiation Safety Committee effective July 1, 1996, on a temporary basis until a new chairperson can be appointed.

I will notify you immediately upon this appointment. A copy of Dr. Chacko's curriculum vitae is enclosed for your files.

Please contact me if you have any questions.

Sincerely,

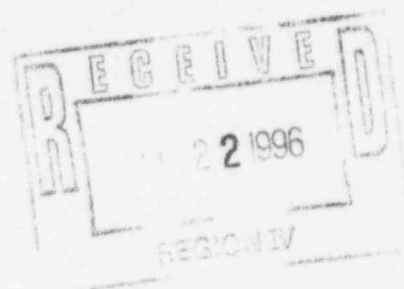
  
Subhash M. Danak, M.S., D.A.B.R.  
Radiation Safety Officer

/lsv

Enclosure  
NRC71596.ltr



## CURRICULUM VITAE



GEORGE N. CHACKO M.D.

S.S.N. 569-95-9716.

1609 BOOMER TRAIL,

EDMOND, OKLAHOMA. OK 73034.

HOME: (405) 340-5163. Pager: (405) 498-3098.

WORK: (405) 270-5165 V.A.M.C. Fax: (405) 270-5123.

(405) 271-5141 University Hospitals, Oklahoma City.

SPECIALITY: Nuclear Medicine

### CERTIFICATION AND LICENSURE:

American Board in Nuclear Medicine (ABNM) 1994

Oklahoma Medical Licensure #17461.

FLEX- California, 1984.

ECFMG 1982.

### CURRENT POSITION:

Assistant Professor, Department of Nuclear Medicine, Division of Radiological Sciences, University of Oklahoma Health Sciences Center, Oklahoma City.

Assistant Chief, Nuclear Medicine Service, V.A.M.C., Oklahoma City.

### EDUCATION:

The Christian Medical College and Brown Memorial Hospital, University of Panjab, Ludhiana, India. Graduated with a degree in Medicine in March 1977.

Premedical education:

University of Bombay, India

July 1967- July 1969: Appeared successfully for the First Year and Intermediate Science examinations and qualified for entrance to medical school.

High school education:

a) Scottish Society's School, Bombay, India.

b) Cathedral and John Connon School, Bombay, India.

Total number of school years: 11, appeared for the school leaving examination of the University of Cambridge, G.C.E., with high credits in all seven subjects.



## PREVIOUS PRACTICES & UNIVERSITY APPOINTMENTS:

November 1992 to present: Assistant Professor in the Department of Nuclear Medicine, the Division of Radiological Sciences at the University of Oklahoma Health Sciences Center with attending privileges at the University Hospitals in Oklahoma City. Assistant Chief of the Nuclear Medicine Service at the VAMC in Oklahoma City.

May 1991 to April 1992: Staff Physician in Nuclear Medicine, St Vincents Hospital & Medical Center, 9205 S.W. Barnes Road, Portland, Oregon 97225.

## EXPERIENCE AND TRAINING:

### United States Experience:

March 1989 to April 1991: Residency training in Nuclear Medicine at the Department of Nuclear Medicine of the University of Oklahoma Health Sciences Center, Oklahoma City.

June 1988 to February 1989: Research Physician in the Department of Cardiology at the Rancho Los Amigos Medical Center, Downey, California.

May 1987 to May 1988: Research Assistant in Radiation Oncology at the City of Hope National Medical Center, Duarte, California. I had been involved in a number of projects involving long term bone marrow cultures (human) and worked on an in-vitro model system that would help in evaluating newer chemotherapeutic and radiation regimes.

### United Kingdom Experience:

February 1986 to December 1986: Senior House Officer in Medical and Radiation Oncology (Radiotherapy) at the Leicester Royal Infirmary in Leicester, England. This is a teaching hospital and the regional center in the East Midlands for radiation and medical oncology.



United Kingdom Experience (continued):

May 1985 to June 1985: Locum Registrar in Internal Medicine at the Manor Hospital, Walsall, West Midlands, England. This was through the Hospital Doctor Locum Agency, Hope St., Liverpool, England.

April 1985 to May 1985: Locum Registrar in Internal Medicine at the County Hospital in Hereford, England. This was through the Hospital Doctor Locum Agency, Hope St., Liverpool, England.

March 1984 to March 1985: Spent eight months in India and also visited the United States where in December 1984 appeared for and was successful in the Flex examination in Sacramento, California.

August 1983 to February 1984: Locum tennens for the Hospital Doctor Locum Agency, Hope St., Liverpool, England.

July 1983 to August 1984: Locum Registrar in Internal Medicine at the Blackburn Royal Infirmary, Blackburn, Lancs., England.

February 1983 to May 1983: Postgraduate student in Internal Medicine at the Internal Medicine Course conducted by the Royal College of Physicians, Edinburgh, Scotland.

November 1982 to January 1983: Locum Registrar in Internal Medicine at the Kettering General Hospital, Kettering, Northants, England.

June 1980 to July 1982: Senior House Officer in Internal Medicine at the Blackburn Royal Infirmary, Queens Park Hospital, Park Lee Hospital of the Blackburn, Hyndburn & Ribble Valley Health Authority, Lancs., England.

March 1980 to May 1980: Locum Senior House Officer in Nephrology at the Guys Hospital, London, England.

August 1979 to February 1980: Locum Senior House Officer in Internal Medicine at the Blackburn Royal Infirmary, Lancs., England.

February 1979 to August 1979: Pre-Registration House Officer in Internal Medicine at the Queens Park Hospital, Blackburn, Lancs., England.



### Indian Experience:

May 1977 to March 1978: Resident Physician in Medicine with duties in Nephrology and the Coronary Care Unit at the Jaslok Hospital, Bombay, India.

December 1975 to January 1977: Rotating Resident Internship at the Brown Memorial Hospital, Ludhiana, Panjab, India.

### Abstracts and Publications:

- 1) Abstract published and read at the Radiation Research Society Meeting February 1988 at Philadelphia: The combined effects of hyperthermia and radiation have a synergistic effect on long term (in-vitro) murine bone marrow cultures. G. Chacko, N. Mivechi et al.
- 2) Comprehensive Analysis of LSF's. D.J. Wood, G. Chacko et al presented at the Southwest Chapter meeting of the Society of Nuclear Medicine, Austin, Texas.

Works in progress: 1) Brain SPECT imaging in Epilepsy.

2) Gated Thallium SPECT scans in Coronary Heart Disease.

3) Evaluation of Ejection Fractions under conditions of stress and rest using Gated Thallium SPECT scans.

### Memberships of Societies

Society of Nuclear Medicine.

Treasurer/Secretary of the Central Oklahoma State Radiological Society.

### PERSONAL DATA:

Permanent U.S. Resident.

Marital Status: Married. Name of Spouse: Christie.





**DIVISION OF ACCOUNTING AND FINANCE  
REQUEST FOR REFUND TO EMPLOYEE/VENDOR**

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR REGULATORY COMMISSION FOR GOODS AND/OR SERVICES PROVIDED AND IS DUE A REFUND

EMPLOYEE/VENDOR/PAYEE CODE: \_\_\_\_\_

NAME: The University of Oklahoma

ADDRESS: Attn: Subhash M. Darrak, M.S., D.A.B.R.

ADDRESS: 1000 Stanton L. Young Boulevard, Library 176

CITY: Oklahoma City STATE: OK ZIP: 73190

TRANS CODE: PX

TRANS TYPE: FE FUND: X5280 JOB CODE: \_\_\_\_\_ AMOUNT: 410.00

TRANS TYPE: IR FUND: R1435 JOB CODE: INTR AMOUNT: \_\_\_\_\_

TRANS TYPE: IR FUND: R1099 JOB CODE: ADCH AMOUNT: \_\_\_\_\_

TRANS TYPE: IR FUND: R1099 JOB CODE: FINE AMOUNT: \_\_\_\_\_

TOTAL REFUND AMOUNT: 410.00

COMMENTS: 7/15/96 and Ltr 35-03176-05

Combrd w/ 2/8/96

(limit comments to 40 characters, including spaces)

PREPARED BY: Rita Messier DATE: 1/24/96

AUTHORIZED BY: Simon Kimberly DATE: 1/28/97

ORIGINAL INV. NO: \_\_\_\_\_ DATE PAID: \_\_\_\_\_ AMOUNT: \_\_\_\_\_

REFUND ENTERED INTO COLLECT BY: \_\_\_\_\_

REFUND DETERMINED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION**

030025

4B  
AA905 AMD  
Jul 3 IV  
ck# 434621  
dated 8/8/96  
for 410