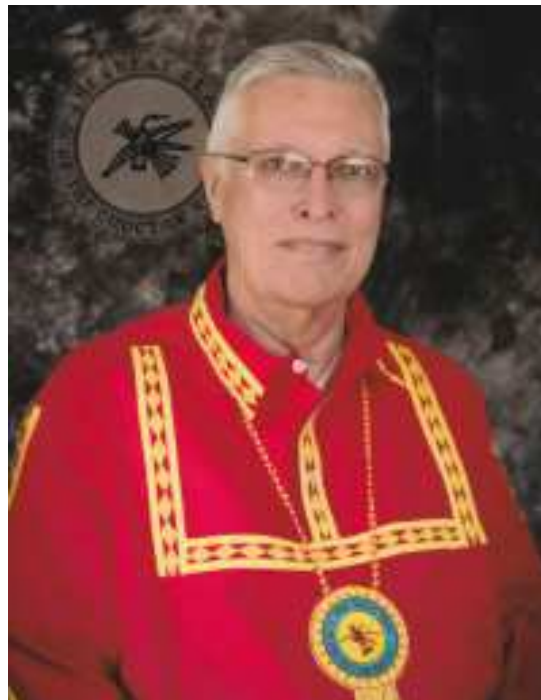


Howard Phillips, PhD, PE
Personal Biography and Professional Curriculum Vitae

Date: 2018

SECTION 1 -- Professional Resume / Curriculum Vitae

SECTION 2 -- Personal Resume and Biography



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SECTION 1 -- Professional Resume / Curriculum Vitae

Howard Phillips, PhD, PE

PRESENT PROFESSIONAL STATUS -- SEMI-RETIRED -- Age 78 as of 9/9/2018

Owner of the following business operations:

Phillips Export; part of Phillips Company; General Manager and Founder of our pharmaceuticals product development-and-license company. As the semi-retired owner, we no longer manufacture and distribute products; the company now operates as a product and technology licensing company.

Howard Phillips, LLC; Owner of Phillips Export and Phillips Company.

Engineering Consultant to universities and Fortune-500 companies

Retirement activities:

The Choctaw Nation is the third-largest American Indian tribe in North America.

As a tribal member, my activities include regular attendance at weekly senior-citizen meetings and other tribal functions.

I serve as an informal liason to supporters and donor groups from England and Ireland. Coordinated the donation of an American Bison (buffalo) pelt to the Choctaw Nation from an Irish donor who traveled to Tushkahoma to present the pelt to Choctaw Chief Greg Batton in 2018.

I serve as an advocate to notify Choctaw land owners of planned land takeover by the government. In 2018, the McCurtain Gazette newspaper published the names of 2000 land owners whose property can be taken by the government because of delinquent taxes. Many of these land owners are Choctaws. Many Choctaws do not read newspapers, because of limited education and their residential remote locations including Bethel, Battiest and other rural areas. This is Oklahoma land that was granted to the Choctaws in exchange for Mississippi land that was taken from the Choctaws in treaties signed in 1820 and 1830. Now, the government imposes taxes on that land and plans a takeover of that land after publication of notifications in local newspapers, unless taxes are paid.

I serve as a volunteer writer for the **Valliant Leader**. **The Leader** is a local newspaper published in Valliant, Oklahoma.

EDUCATION

The University of New Mexico, Doctor of Philosophy (Ph.D.), Electrical Engineering, Conferred with Honors, May 1972

The University of Oklahoma, Master of Engineering (M. Eng.), Nuclear Engineering, June 1966

Oklahoma State University, Bachelor of Science (B.S.), Electrical Engineering, January 1963

CONTACT INFORMATION

E-MAIL ADDRESS: hp@valliant.net

TELEPHONE: (623) 594 9195 (Arizona); (580) 746-2430 (Oklahoma); (323) 791-2033 (cell)

FAX: (580) 746-2430 (Oklahoma)

BUSINESS OFFICE ADDRESS: 10010 W Oak Ridge Drive, Sun City, AZ 85351

MANUFACTURING ADDRESS: PO Box 52, 311 NW Chickasaw Street, Millerton, OK 74750

PATENTS AND INVENTION CURRENT STATUS

Artificial vision research and patent status:

U.S. Patent number 5,109,844, issued May 5, 1992, entitled Intraocular Visual Prosthesis and Retinal Microstimulation, with Eugene de Juan, M.D., Mark S. Humayun, M.D., Dyson Hickingbotham. This patent covers a method for using a microcircuit, similar to a computer microchip, implanted in a blind eye to restore vision to humans. Research associated with this project led to successful animal trials and has completed trough successful human surgical trials -- and was FDA approved for clinical use. **CURRENT STATUS:** The use of this invention in a medical procedure to restore vision to blind humans is now available in the USA, Europe and worldwide. For more information, ask for the document AV.pdf and the video Retina.wmv Or, on the internet click on

https://docs.wixstatic.com/ugd/06a78c_c68cf9c969c542b5a950ca1d3d88090e.pdf

Hydrogen and catalytic carbon patent, <http://www.google.com/patents/WO2013016367A1?cl=en> This patent describes a new method for using catalytic chemistry to split water and extract hydrogen for use as a new alternate fuel. The new catalyst is called CATALYTIC CARBON, and the new method for producing hydrogen on demand (HOD) is called CC-HOD. **CURRENT STATUS:** The patent has been licensed to a European group for development of hardware for use in providing hydrogen for fueling electrical power generation plants. This is a non-exclusive license and the technology is still available for license to others who want to develop an alternative fuel using hydrogen from water to augment or replace petroleum.

<http://www.google.com/patents/WO2013016367A1?cl=en>

<https://www.phillipsexport.com/hydrogen>

PROFESSIONAL EXPERIENCE

Consulting: Provided financial forecasting products to Fortune 500 institutional investors (1987 to present time).

Consulting: Served as the Industrial Liaison Officer for the NSF Engineering Research Center, University of Southern California from 2003 to 2006

Professor Emeritus of Electrical Engineering (retired since 2004); Professor, Electrical Engineering Department (1995 to 2004); Lecturer, College of Engineering and ET Department (1993 to 1995); University of North Carolina at Charlotte

Vice President (1991 to April, 1993); Senior Director (1989 to 1991); Director (1985 to 1989); Semiconductor Research Corporation, Research Triangle Park, North Carolina

Director (1980 to 1985); Electronics Research Laboratory; The Aerospace Corporation, El Segundo, California

Manager (1977 to 1980); Lockheed Microelectronics Center; Lockheed Corporation, Sunnyvale, California

Group Leader (1975 to 1977); Program Manager (1973 to 1975); Senior Technical Staff Member (1972 to 1973); Engineering consultant, while on leave to complete PhD degree (1969 to 1972); Senior Research Engineer (1966 to 1969); Rockwell International, Anaheim, California

TEACHING

Taught courses in Digital Electronics (ECGR 2181), D.C. Circuit Analysis (ECGR 2111), A.C. Circuit Analysis (ECGR 2112), Freshman Engineering (ENGR 1201 and ENGR 1202) from 1993 to 2004 at the University of North Carolina at Charlotte.

Carried out BIOMEDICAL ENGINEERING research with research colleagues at the Duke Eye Center, University of North Carolina at Chapel Hill and the University of North Carolina at Charlotte.

Created and taught EEGR 8090/6090 as both a graduate course and undergraduate course (S00).

2000 - Nominated for the ALCOA Foundation Outstanding Faculty Award in recognition of outstanding performance in graduate education.

2001 - Nominated for the ALCOA Foundation Outstanding Faculty Award in recognition of outstanding performance in undergraduate education.

MASTERS AND PH.D. GRADUATES

Served as Graduate Advisor for Khaled Badr, MSEE, graduated 5/2000; now working for Intel in Phoenix.

Served as Graduate Advisor for Steven Moore, Ph.D., graduated 5/2001; now working as a patent attorney.

Served on the research committee for Mark Humayun, MD, PhD

Advised other graduate students in the fields of electrical engineering, financial engineering and biomedical engineering.

PROFESSIONAL REGISTRATION AND LICENSES

Registered as a professional engineer in the State of California (#E7114, Exam 4/1968, licensed since 8/1968). Previously registered in New Mexico (#4980, January 20, 1971 to October 30, 1973), and Oklahoma (ET1473), 1964).

Registered as an investment advisor with the Securities and Exchange Commission; 1993 to 1999 and with the Securities Division in the State of North Carolina (1993 to 1999).

PATENTS GRANTED

Hydrogen and catalytic carbon patent, <http://www.google.com/patents/WO2013016367A1?cl=en> This patent describes a new method for using catalytic chemistry to split water and extract hydrogen for use as a new alternate fuel. The new catalyst is called CATALYTIC CARBON, and the new method for producing hydrogen on demand (HOD) is called CC-HOD. **CURRENT STATUS:** The patent has been licensed to a European group for development of hardware for use in providing hydrogen for fueling electrical power generation plants. The published patent can be reviewed online at

<http://www.google.com/patents/WO2013016367A1?cl=en>

U.S. Patent number 5,109,844, issued May 5, 1992, entitled Intraocular Visual Prosthesis and Retinal Microstimulation, with Eugene de Juan, M.D., Mark S. Humayun, M.D., Dyson Hickingbotham. This patent covers a method for using a microcircuit, similar to a computer microchip, implanted in a blind eye to restore vision to humans. Research associated with this project led to successful animal trials and is now proceeding through successful human surgical trials.

Note: The above patent has led to more than \$50 million in funded research to restore vision to blind humans. The technology is now in clinical trials and has been shown to be successful. From 2003 through 2005, I served as the Industrial Liaison Officer and engineering consultant during the formation of the NSF Engineering Research Center to develop this technology. The ERC is an ongoing program at the University of Southern California. A description of the program is online at <http://bmes-erc.usc.edu>

Microelectronics patents granted/filed in the United States, Canada, France, West Germany, Great Britain and Japan. For example, U.S. Serial No. 858,049, filed December 6, 1977.

A more-complete patent history is available online at

<https://patents.justia.com/inventor/d-howard-phillips>

SCHOLARSHIP

References are available for more than 100 publications and presentations, including papers, articles, books, chapters of books, and professional paper presentations at conferences.

CAREER DETAILS

UNIVERSITY, PROFESSIONAL AND COMMUNITY SERVICE

University Service / Department Service -

Departmental Review Committee; Formal reviews of the Department Head's annual performance, and Post-tenure review of faculty members in the department - 1999 to 2004.

Guest lecturer for Dr. Johnson's class, AMST 2100 and RELS 2000, 11/12/2000. Topic: Indian Removal Over The Trail Of Tears From A Choctaw Perspective.

Guest lecturer for Dr. Bonney's class, ANTH 2114, 11/28/2000. Topic: Indian Removal Over The Trail Of Tears From A Choctaw Perspective.

Graduate Coordinator (Ph.D. and M.S.) in the Electrical Engineering Department (S97 and F97).

Faculty liaison to the Electrical Engineering Board of Advisors (F96 to 2004).

EE Department Curriculum Committee Member (F96 to 2004).

UNCC Faculty Council, EE Department's representative (F96 to F97).

EE ABET Accreditation Visit Preparation Team (S96 to F97).

EE Digital teaching team; with Prof. Makki and others (F96 to 2004).

EE Labs curriculum team; with Profs. Tranjan and others (F96 to 2004).

Guest lecturer for Dr. Edwards' class, ENGR 1202, Introduction to Engineering (S97).

Team leader, Engineering Student Recruiting Team (F96 to S97).

EE department advising team. Advisor for 41 undergraduate Electrical Engineering students (F96 to S97).

Graduation and Commencement Committee for EE graduate students (12/14/96).

College of Engineering Service -

SUCCEED Faculty Development CIT team leader, (S97 and F98).

SUCCEED Student Programs Coalition Focus Team leader, (F97 to F00).

SUCCEED Student Programs Coalition Focus Team leader, (F00 to F02).

SUCCEED Guidance Team member, (F97 to F02).

Computer Engineering program planning committee member, S98.

Invited to join the faculty of the School of Information Technology, 2/98. Accepted this appointment 3/98; completed in F99.

Member of the guidance committee, the School of Information Technology, 3/98 to F99.

Guest lecturer for Dr. Hocken's class, MEGR 2180, Manufacturing Systems. Topic: Engineering Economics (4/2/97, 4/3/97, 11/5/97, 11/6/97, 4/8/98 and 4/9/98)

"Financial Investments and Retirement" MAPS Workshop (2/27/97, 3/5/97, 4/23/97, 10/7/97, 10/8/97, 11/18/97, 11/19/97, 4/6/98, 4/13/98 and each semester since, to 2004), lecturer/presenter.

Advisor for 13 engineering undecided undergraduate students for College of Engineering, for COE/SGM (F96 to S97) Information Technology Ph.D. Implementation Team/Committee (3/97 to 5/97).

College of Engineering Mentoring Program Advisory Board (1995 to S00)

UNCC Explore Open House, 3 Saturdays per year, EE Department's Representative (1995 to 2004) Chairman, UNCC Engineering Management Task Force; wrote Permission to Plan document for a new M.S. Engineering Management program in the College of Engineering (F96 to S97)

FEGR/ENGR advising team, beginning 9/30/96 per COE appointment letter, to S97.

SUCCEED Freshman Programs PI (part of CIT), (S97).

COE advisory and planning team for ENGR 1201 and ENGR 1202, with Profs. Middleton, Tolley, Allen, Graham, Shelnut, Kane, Cuttino and Patterson (1995 to 2004)

"How to Make an A" MAPS Workshop lecturer/presenter (2/13/97, and 4/9/97 and each semester since, to 2004), lecturer/presenter.

University Service -

Served as departmental coordinator for the 1999 and 2000 State Employees Combined Campaign (SECC). Total contributions, university-wide, for 2000 were \$103,078, or 100.76% of the goal.

Evaluator for ENGR 1201 and ENGR 1202 final report presentations by students, 5/96 and each semester since, to 2004.

Served as departmental representative to the Dr. Martin Luther King program sponsored by UNCC (Office of Student Activities, Multicultural Resource Center, Black Student Union), 1998 and each January thereafter until 2004.

Served as evaluator for student research and poster presentations at the North Carolina Alliance for Minority Participation (NCAMP) Undergraduate Research Conference, 4/4/98.

Elected Secretary for Sigma Xi (UNC Charlotte chapter), 4/2/98.

ACE Institute lecturer, "How To Make An A" (9/17/97, and each semester thereafter until F02).

ACE Institute lecturer, "Personal Action Plan" (9/24/97).

UNCC Council on Race Relations, COE representative (F96 to F03).

UNCC Explore Open House, three Saturdays per year, EE Department's representative (1995 to 2004).

UNCC Explore open house, presentation of a talk, with Craig Fulton, Director of Admissions, "How to Make an A" (11/8/97).

Mathematics and Science Education Center, Saturday Academy, attendance: approximately 150 college-bound students (9/27/97).

Mathematics and Science Education Center, Pre-college Program's Parent Workshop, attendance: approximately 75 parents of college-bound students (10/25/97).

Speaker, "How to Make an A," presented at the North Carolina School Counselor Association annual conference, with Craig Fulton, UNC Charlotte Director of Admissions, Winston-Salem, NC, 11/14/98.

Speaker, "How to Make an A" presented to 60 parents, Parent Workshop hosted by the Mathematics/Science Education Center, 10/25/97.

Speaker and host for laboratory tour, 20 students, Junior Science & Humanities Symposium, Mathematics/Science Education Center, 3/2/98.

Host and planning committee chairman for the SUCCEED-sponsored workshop, Multidisciplinary Design ABET 2000, University Hilton Hotel, 3/25/98.

Host and planning committee member for the SUCCEED-sponsored faculty development workshop, Navigating the Bumpy Road to Student-Centered Instruction and Retention, University Hilton Hotel, 2/12/98 and 2/13/98.

McNair Scholars invited speaker; "How to Make an A" (1/26/98).

Special workshop, sponsored by the Provost's Student Success and Retention Improvement Team, presented to 150 students in student housing; "How to Make an A" (1/27/98), lecturer/presenter, with Dr. D. Trauth.

Special workshop, sponsored by the Provost's Student Success and Retention Improvement Team, presented to 200 "Greek Organization" students, sponsored by the Order of Omega; "How to Make an A" (3/3/98), lecturer/presenter, with Dr. Roger Brown.

Professional Engineering Continuing Education lecturer. Topic: Forecasting and Investing. This workshop was part of the PDH series in continuing education for Professional Engineers (12/11/97).

Instructional and Promotional Planning Task Force member. This is a task force formed by Dr. Sam Watson, English Department, to guide the Summer Institute for Entering Undergraduates. (F97 to F99).

Curriculum development committee member, Introduction to American Indian Studies, taught for the first time in the spring semester, 1998. (S97 to S98).

Lecturer, with Dr. E. Perzel, AMST 3000, Introduction to American Indian Studies, taught for the first time in the spring semester, 1998.

Search Committee Member, NationsBank Endowed Chair in Management Information Systems (F97 to S98).

Guest Lecturer for Dr. O'Hara's class, English 1100. This is a class of students for whom English is a second language. (10/20/97, 10/27/97 and 2/10/98)

Guest Lecturer for Dr. Bonney's class, Anthropology 2114. Topic: Indian Identity (11/6/97).

UNCC Native American Academy member (1995 to 2004).

UNCC Patent Committee member (1995 to 2004).

Chairman, UNCC Student Success and Retention Improvement Team; appointed by the Interim Provost (F97 to S00).

SUCCEED Faculty Development team leader (S97 and F97).

Member, UNCC Engineering Management Task Force to develop a “permission to implement” document (S98 to S99).

Chairman, UNCC Engineering Management Program Planning Task Force to develop a “permission to plan” document (F96 to S97).

Guest Lecturer for Dr. Bonney’s class, Anthropology 2112. Topic: North American Indians (4/3/97).

Information Technology Ph.D. implementation team/committee (3/97 to 5/97).

UNCC Student Success and Retention Improvement Team member, COE representative (1995 to S97).

UNCC SSRIT Student Support Programs committee member, COE representative (F96 to S97).

UNCC Faculty Council, EE Department’s representative (F96 to F97).

SUCCEED Freshman Programs team leader (F96 to S97).

Student Bridge/Incentive Program (1/10/97), lecturer/presenter.

Student Advising for Freshman Excellence (1/29/97), lecturer/presenter.

McNair Scholarship for Engineering Students (1/15/97), lecturer/presenter.

Special Career Information Day at UNC Charlotte, for American Indian High School Students in NC (2/1/97), lecturer/presenter.

Excellence in Engineering; Learning Center Workshop (2/3/97 and 10/22/97), lecturer/presenter.

English Department Advising/Mentoring Workshop; “How to Make an A” (2/25/97), lecturer/presenter.

Minority Academic Services; ACE Program, “How to make an A” (5/2/97), lecturer/presenter.

Minority Academic Services; ACE Program, “Personal Action Plan,” (5/9/97), lecturer/presenter.

Community Service Assignments

Invited speaker at a membership meeting of the IEEE, Charlotte Section. Topic: Financial Engineering and Market Forecasting, 11/16/00.

Invited guest lecturer to the third grade classes at the Mallard Creek Elementary School on 11/27/00. Topic: Native American Culture and Languages November is national Native American month.

Invited guest lecturer to the first grade class at the Cannon School, Concord, NC, on 11/20/00. Topic: Indian Removal. November is national Native American month.

“Strategic Forecasting Using Engineering Methods,” Charlotte Chapter of the Professional Engineers of North Carolina, October 27, 1997.

Interview speaker on WNKS-FM radio (95.1 MHz) and WFNZ-AM radio (610 KHz) on 2/15/98. Topic: Investing and financial forecasting.

Interview speaker on WNKS-FM radio (95.1 MHz) on 3/29/98. Topic: Investing and financial forecasting.

Interview speaker on WFNZ-AM radio (610 KHz) on 4/5/98. Topic: Investing and financial forecasting.

W. R. Odell Grade School, Cabarrus County, guest lecturer at special educational event, 4/1/98.

Charlotte Mecklenburg Schools Technical High School Planning Task Force, UNCC's representative (1996)

Charlotte Mecklenburg Schools Technical High School Curriculum Advisory Group (1996).

Central Cabarrus High School (200 students) "How to Make an A" (1/23/97), lecturer/presenter.

A. L. Brown High School; "How to Make an A" (2/4/97), lecturer/presenter.

Coulwood Middle School; "How to Make an A" (2/25/97), lecturer/presenter.

Rowan High School; "How to Make an A" (3/19/97), lecturer/presenter.

Monroe High School; "How to Make an A" (3/17/97), lecturer/presenter.

Providence High School; "How to Make an A" (5/14/97), lecturer/presenter.

Volunteer Service

Served as guest contributing editor for a local newspaper, The Valliant Leader, Valliant, Oklahoma. One article each week for three months during the summer. (May-August, 2000 and continuing, during the summers to 2004.

Invited speaker, Wheelock Gathering, a festival sponsored by the Choctaw Nation. Topic: Wheelock Academy History. (7/3/99, 7/3/00, and 5/27/01).

Community organizer, volunteer service for the Choctaw Nation of Oklahoma, Wheelock Academy Master Planning community meeting, Millerton, OK, 6/7/00.

Invited speaker, special workshop, sponsored by the Chickasaw Nation of Oklahoma, presented to 50 students attending the Upward Bound program at the Chickasaw Nation Headquarters, Ada, Oklahoma; "How to Make an A" (6/11/97).

Invited speaker, special workshop, sponsored by the Choctaw Nation of Oklahoma, presented to 150 Youth Camp students at Lake Arrowhead State Park, Oklahoma; "How to Make an A" (6/5/97).

Invited speaker, Durant Public Library, Durant, Mississippi; "How to Make an A" (5/15/98).

Rags to Riches Investment Club, an investment club in Charlotte. Topic: Beginning investing (9/16/97).

Director, Vision Research Institute (June 1992 to 1995). The VRI fosters research leading to the surgical implantation of a computer microchip for simulation of the retina. Goal: restore vision to blind people. The VRI is affiliated with Duke University, the University of North Carolina at Chapel Hill, North Carolina State University, Research Triangle Institute, TULCO and Johns Hopkins University.

Charlotte Mecklenburg School System Indian Education Committee (UNCC/NAA representative).

Shepherd's Center (450 attendees from 30 churches in Charlotte area); "Financial Investments for Retirement" (2/10/97), lecturer/presenter.

Charlotte Chapter - North Carolina Society of Financial Analysts (Luncheon Speaker, 3/5/97), lecturer/presenter.

Workshops Conducted

Mentoring Workshop; "Financial Investments and Retirement" (2/27/97, 3/5/97, 4/23/97, 10/7/97, 10/8/97, 11/18/97, 11/19/97, 4/6/98 and 4/13/98), lecturer/presenter.

Speaker, "How to Make an A" presented to 60 parents, Parent Workshop hosted by the Mathematics/Science Education Center, 10/25/97.

Invited speaker, special workshop, sponsored by the Chickasaw Nation of Oklahoma, presented to 50 students attending the Upward Bound program at the Chickasaw Nation Headquarters, Ada, Oklahoma; "How to Make an A" (6/11/97).

Invited speaker, special workshop, sponsored by the Choctaw Nation of Oklahoma, presented to 150 Youth Camp students at Lake Arrowhead State Park, Oklahoma; "How to Make an A" (6/5/97).

Host and planning committee chairman for the SUCCEED-sponsored workshop, Multidisciplinary Design ABET 2000, University Hilton Hotel, 3/25/98.

Host and planning committee member for the SUCCEED-sponsored faculty development workshop, Navigating the Bumpy Road to Student-Centered Instruction and Retention, University Hilton Hotel, 2/12/98 and 2/13/98.

Special workshop, sponsored by the Provost's Student Success and Retention Improvement Team, presented to 150 students in student housing; "How to Make an A" (1/27/98), lecturer/presenter, with Dr. D. Trauth.

Special workshop, sponsored by the Provost's Student Success and Retention Improvement Team, presented to 200 "Greek Organization" students, sponsored by the Order of Omega; "How to Make an A" (3/3/98), lecturer/presenter, with Dr. Roger Brown.

Invited speaker, Durant Public Library, Durant, Mississippi; "How to Make an A" (5/15/98). Student Bridge/Incentive Program (1/10/97), lecturer/presenter.

McNair Scholarship for Engineering Students (1/15/97), lecturer/presenter.

Special Career Information Day at UNC Charlotte; for American Indian High School Students in NC (2/1/97), lecturer/presenter.

Excellence in Engineering; Learning Center Workshop (2/3/97), lecturer/presenter.

Mentoring Workshop; "How to Make an A" (2/13/97), lecturer/presenter.

English Department Advising/Mentoring Workshop; "How to Make an A" (2/25/97), lecturer/presenter.

Mentoring Workshop; "How to Make an A" (4/9/97), lecturer/presenter.

Minority Academic Services; ACE Program, "How to Make an A" (5/2/97), lecturer/presenter.

Minority Academic Services; ACE Program, Personal Action Plan,” (5/9/97), lecturer/presenter.

Shepherd’s Center (450 attendees from 30 churches in the Charlotte area); “Financial Investments for Retirement” (2/10/97), lecturer/presenter.

Government Service

National Research Council, Board of Assessment of NIST Programs, Panel for Electronics and Electrical Engineering, member from 6/92 through 6/95.

Session Chairman for the 1986 MILCOM Conference. Session title: Microwave Gallium Arsenide IC Technology and Applications.

Technical Program Chairman for the EIA/USAF Space Electronics Conferences (1982 and 1983).

DoD (Department of Defense) Advisor - 1978 - 1979. Advisor and invited member of DoD Critical Technology Expert Group (CTEG) on LSI Production Technology.

Session Chairman for the Government Microcircuits Applications Conference (GOMAC, 1980).

National Academy of Sciences - Manufacturing Studies Board, Electronics Automation Committee - served 1986 to 1988.

The CTEG on LSI production technology was formed by the American Electronics Association to assist DoD in its efforts to implement new approaches to export controls that focus on controlling technologies which are CRITICAL and which, if transferred to an adversary country, could prove detrimental to national security. The group’s objective was to define technically those areas within LSI production technology in terms of “critical know-how” and “Keystone equipment.” The recommendations of the CTEG committee were considered during the formulation of the Commodity Control List (CCL) - a list of candidate keystone equipments. CTEG recommendations are also considered during the formation/updating of a second export control list; the COCOM list.

(COCOM is an international coordinating committee, which includes the NATO countries minus Iceland, plus Japan.)

National Science Foundation - MIPS Advisory Committee (Microelectronics Information Processing Systems) 1987-1991.

Public Lectures

Invited speaker, McCurtain County Historical Society, Garvin, Oklahoma; “Millerton History” (5/21/2009)

Invited speaker, Durant Public Library, Durant, Mississippi; “How to Make an A” (5/15/98).

“Strategic Forecasting Using Engineering Methods,” Charlotte Chapter of the Professional Engineers of North Carolina, 10/27/97.

“Financial Investments,” presented at The Higher Learning Center, sponsored by the Idabel Chamber of Commerce, 7/10/97, and 7/17/97.

Shepherd’s Center (450 attendees from 30 churches in the Charlotte area); “Financial Investments for Retirement,” 2/10/97, lecturer/presenter.

Invited address - "Consortia-sponsored IC and MCM Packaging Research in U.S. Universities," 1992 International Society of Hybrid Microelectronics 25th Anniversary Conference, October 21, 1992, San Francisco, California.

Keynote Address - "Semiconductor Factory Automation and Data Management Research," Data Processing Management Association, Raleigh, North Carolina, February 12, 1987, TN 725.

Keynote Address - "Integrated Circuit Manufacturing in 1995," Materials Research Society, MCNC, Research Triangle Park, North Carolina, November 24, 1986. TN708.

Luncheon Address - "Space Systems Electronics Technology Forecast," presented to the Electronics Industry Association, Los Angeles, California, October 10, 1984. Conference Proceedings, p. 146.

National Press Club, Washington, D.C., invited presentation, "New Directions in Microelectronics Technology." July 1979.

Consulting Activities

Consulting (2003 to present) - I served as the industrial relations officer for the National Science Foundation's Engineering Research Center at the University of Southern California, focusing on Biomimetic Microelectronics systems R&D from 2003 through November 2005. I continue to serve as special consultant to this program after my retirement in November 2005.

Consulting (1987 to the present) - I provide financial forecasting products to Fortune 500 institutional investors. Applications of adaptive forecasting and financial engineering, eight hours per week, with past and continuing clients including TIAA/CREF, Legg Mason, Western Asset Management and others (since 1995).

Consultant to Department of Defense, Air Force Weapons Laboratory, Kirtland Air Force Base, 5/71 to 5/72. Performed analyses of MOS and SOS devices to define improved radiation-hardening design concepts to achieve greater tolerance of MOS and SOS integrated circuits in nuclear-weapon radiation environments.

Radiation Effects Technical Consultant - Physics International (PI) Company, southwest Regional Office in Albuquerque and PI/San Leandro, 10/70 - 6/71. Performed radiation-simulator and high-energy-electron-radiation-effects market analyses and initiated customer interactions at Kirtland Air Force Base.

Technical Consultant - Texas Instruments, Inc. 4/70 to 10/70. Designed and performed Flash X-ray experiments at Kirtland Air Force Base to evaluate prototype microcircuits fabricated by Texas Instruments.

Engineering Consultant - Rockwell International Corporation, 9/69 - 9/72: Nuclear Engineering for one year (1971). Performed radioisotope decay and neutron activation calculations to support MOS-transistor improvement at Rockwell.

Consulting Resident Engineering Representative for Rockwell International at Kirtland AFB (AFWL Laser Division for three years (1969-1972).

Communications Consultant - KSPI Radio, 7/62 - 9/62. Supervised the installation of a new FM commercial-broadcast transmitter.

PUBLICATIONS AND RESEARCH

Books

Author, Price Forecasts - How to Interpret Price Forecasts and Invest Profitably, a book published in 1995 to review price forecasting research and applications. Independently published and distributed internationally.

Co-author, Chapter in textbook, GaAs FET Principles and Technology, pp. 597-619, Artech House, Inc., 1982.

Author, Engineering Business Opportunities, a book published in 1975 to review business and consulting opportunities for engineers. Independently published and distributed nationally.

“Silicon-on-Sapphire/Large Scale Integration,” a 32-page color booklet published by Rockwell International, Publication No. P75-519-201, August 1975, 1500 copies distributed by Rockwell.

Dissertation

Ph.D. Dissertation Title - “Gallium-Arsenide-Phosphide MIS Capacitor Fabrication and Radiation-Effects Studies.”

Articles in Refereed Journals

“Visual Perception Elicited by Electrical Stimulation of Retina in Blind Humans” by M. Humayun, E. deJuan, Jr., G. Dagnelie, R. Propst, R. Greenberg and H. Phillips, Arch. Ophthalmology, 114: 40-46, 1996.

“High Speed Gallium Arsenide Integrated Circuit Development for Satellite Systems,” by D. H. Phillips and H. L. Petersen, published by New York University and AIAA, Progress in Astronautics and Aeronautics, Vol. 67, 1979, pp. 391-408.

“Radiation Hardening of MOS Integrated Circuits on (111) Silicon” IEEE Transactions on Nuclear Science, Vol. NS-22, No. 6, December 1975.

“CMOS/SOS NAND Gate Sapphire Photocurrent Compensation,” IEEE Transactions on Nuclear Science, Vol. NS-22, No. 6, Dec. 1975. “Silicon-on-Sapphire Device Photocurrent Predictions,” IEEE Transactions on Nuclear Science, Vol. NS-21, No. 6, Dec. 1974.

“Fabrication of GaAsP MIS Capacitors Using a Thermal Oxidation Dielectric-Growth Process,” by D. H. Phillips, W. Grannemann, L. Coerver and G. Kuhlmann, Journal of the Electrochemical Society, Vol. 120, No. 8, p. 1087, 1973.

“MOS Integrated Circuit Technology,” by D. H. Phillips, H. D. Southward, and A. Erteza, The Journal of Scientific and Industrial Research, Vol. 31, No. 6, p. 299, June 1973.

“Magnetic Electron Deflection Tube,” by D. H. Phillips, W.W. Grannemann, and D. E. Dunham, IEEE Transactions on Nuclear Science, Vol. NS-18, No. 3, June 1971, pp 804-805.

“Design and Performance of Integrated Circuit Flip-Flop with Photo-current Compensation,” by D. H. Phillips, J.G. Aiken, J. S. Crabbe, H. W. Spence, and G. Kinoshita, IEEE Transactions on Nuclear Science, Vol. NS-16, No. 6, December 1969, pp. 177-180.

“Nuclear Environmental Testing Techniques and Problems,” by D. H. Phillips and J. E. Bell, published in the Journal of Environmental Science, Vol. XII, No. 5, October 1969, pp. 15-18.

Other Articles Published

- “Adaptive Forecasting and Early Trend Detection Using Learn-and-Optimize, Functional Analysis and Filtering,” by Howard Phillips and R. Z. Makki, International Symposium on Forecasting, Istanbul, Turkey, June 24, 1996. Conference Record, page 37.
- “Forecasting Accuracy - A Standard Method of Calculation Proposed for Forecasts of Multiple Parameters,” by Howard Phillips and R. Z. Makki, International Symposium on Forecasting, Istanbul, Turkey, June 24, 1996, Conference Record, page 99.
- “Creating Prices for System Testing,” published in Technical Analysis of Stocks and Commodities magazine, February 1989, pp 24-26.
- “VLSI Manufacturing in 1995,” First International Symposium on VLSI Science and Technology, Philadelphia, Pennsylvania, May 15, 1987. Published in Conference Record; TN747/TN749.
- “Manufacturing Science Intelligent Fabrication of ICs in the 1990s,” Metallurgical Society TMS Meeting, Orlando, Florida, October 6, 1986. Published in Intelligent Processing of Materials and Advanced Sensors, Symposium Proceedings, 1987.
- “The Influence of the SRC on Engineering Education,” by R. K. Cavin and D. H. Phillips, ASEE Engineering Education, 1987.
- “C3 Will Benefit from Continuing Millimeter Wave Research,” Defense Systems Review magazine, Vol. 1, No. 8, January, 1984, pp 57-61.
- “GaAs ICs for Military/Space Applications Mature as the International Race Continues,” by D. H. Phillips and J. P. Hurrell, Military Electronics Countermeasures magazine, February, 1983.
- “VLSI Circuit Development for Future Applications,” Solid State Technology magazine, June, 1981.
- “High-Speed IC Technology Comparison,” Military Electronics/Countermeasures magazine, March 1981, pp 56-58.
- “Semiconductor Radiation Effects,” Electronics Design, special issue on military electronics, August 6, 1981.
- “Major Technical Papers at ASEE,” Northern California Electronic News, Vol. XI, No. 1, January 5, 1981, p. 1.
- “High-Speed Microelectronics for the 1980s,” Lockheed Horizons Magazine, winter 1980-81, pp. 36-43.
- “The Future of GaAs VLSI Technology,” EDN Magazine, 1981.
- “QA Aspects of Silicon-on-Sapphire and GaAs Integrated Circuit Devices,” Quality Progress, November 1980, pp. 32-34.
- “Challenge for Microwave-antenna Designers,” Ham Radio Magazine, Vol. 13, Number 8, August 1980, p. 45.
- “GaAs Test Memory with 100-ps Delays has Structure of MOS Statics,” Electronics, July 31, 1980, p. 41.
- “High Speed GaAs IC,” Military Electronics/Countermeasures magazine, Vol. 5, No. 12, December, 1979, p. 66.

“High Satellite Data Rates Will Demand Use of GaAs,” special issue of EDN Magazine, Vol. 24, No. 22, December, 1979.

“Very High Speed Silicon-on-Sapphire Transistors, by D. H. Phillips, D. K. Kinell, D. G. Girton, and L. Kitajewski, The Radio and Electronic Engineer, Vol. 49, No. 11, November 1979, pp. 581-586.

“Lockheed Hi-Rel Analog Switch IC,” feature writeup describing the first commercially available Lockheed microcircuit product, developed for use in high-reliability aerospace applications, Military Electronics/Countermeasures magazine, November 1979, p. 56.

“Gallium Arsenide Transistor Use Grows,” special editorial interview article, Aviation Week and Space Technology, October 22, 1979, pp. 68-73.

“Summary of Process Properties, Lockheed Microelectronics Center Electronics, September 13, 1979.

“Nuclear and Space Radiation Effects Conference Review,” Military Electronics/Countermeasures, September, 1979, pp. 68-69.

“Cosmic Radiation Effects,” Military Electronics/Countermeasure; Part I published in August, 1979, issue (pp. 88-92); Part II published in September, 1979, issue (pp. 87-93).

“Multichannel Analog Switch IC Offers High Reliability,” Computer Design, August 1979, p. 209.

“Systems Houses Pursue Internal Capability,” part of a special interview article (p. 53) in Microwaves, entitled “Monolithic MICs Gain Momentum as Gallium Arsenide MSI Nears,” Vol. 18, No. 7, July, 1979, pp 42-53.

“VHSIC Lithography and Testing,” Military Electronic/ Countermeasure, Vol. 5, No. 5, May 1979, p. 88.

“Why LSI?”, written as part of a feature interview editorial (“Competition Intensifies in Monolithic Gallium Arsenide”) Microwave System News, April, 1979, p. 40.

“GaAs Integrated Circuits for Military/Space Application,” Military Electronics/Countermeasures magazine, Vol. 4, No. 3, March, 1979, pp. 24-31.

“Characteristics of Thermal Oxides Grown on GaAsP,” by D. H. Phillips, G. J. Kuhlmann, and R. K. Pancholy, Thin Solid Films, Special Issue on III-V MOS Structure, Vol. 50, January, 1979.

“Sapphire Could Challenge ECL,” Electronics magazine, October 26, 1978, pp. 96-97.

“Is GaAs the Answer to Data Traffic Jam?” interview article in Electronics Magazine, special issue on VLSI, November 23, 1978, pp 94-96.

“SOS Impurity Analysis,” NBS Special Publications 400-23, March, 1976, pp 73-79.

“Design Theory for Optimum Radiation Hardened CMOS/SOS Integrated Inverter Circuit,” by D. H. Phillips and R. A. Kjar, published in GOMAC Conference Digest, Vol. 5, pp. 92-93, June, 1974.

“GaAsP MIS Capacitor Dielectric-electric-Growth Process, by D. H. Phillips, W. Grannemann, L. E. Coerver, and G. J. Kuhlmann, 1972 IEEE Region III Conference Proceedings, pp. N2-1 through N2-3.

“MOS Integrated Circuit Technology,” by D. H. Phillips, W. W. Grannemann, H. D. Southward, A. Erteza, 1972 IEEE Region III Conference Proceedings, pp. D1-1 through D1-4.

“Radiation-Hardened Components, Circuits and Systems,” by D. H. Phillips, J. S. Nichols and H. D. Southward, 1972 IEEE Region III Conference Proceedings, pp. D5-1 through D5-4.

“Electrical Characteristics of a Magnetic Electron Deflection Tube Designed for Use with Flash X-ray Machines,” by D. H. Phillips, W.. Grannemann, H. D. Southward, and G. Kuhlmann, 1972 IEEE Region III Conference Proceedings, pp. G5-1 through G5-3.

“Gallium Arsenide-Phosphide MIS Capacitor Fabrication and Radiation-Effects Studies,” based upon my research at the University of New Mexico sponsored by Office of Naval Research.

Published as UNM Technical Report EE-195(72)ONR-005, May, 1972.

“A Hybrid Radiation-Hardened Line Driver Amplifier,” by D. H. Phillips, G. J. Kuhlmann, W.. Grannemann and A. Erteza, 1972 IEEE Region VI Conference Proceedings, April 19-21, 1972, pp. 179-182.

“Removing the Spectrum Dependence from Electron-Beam Dosimetry Measurements by Using a Magnetic Electron Deflection Tube,” by D. H. Phillips, W.. Grannemann, and H. D. Southward, Eleventh Symposium on Electron, Ion, and Laser Beam Technology Conference Record, San Francisco Press, 1971, pp 98-102.

“Design of Test Fixtures for Electron Beam TREE Experiments,” by D. H. Phillips, W.. Grannemann, and G. J. Kuhlmann, Radiation Effects, Vol. NSS-11, No. 2, November 1971, pp. 99-105.

“High-Dose-Rate-Electron-Beam Irradiations Using a Telescoping Drift Tube,” Eleventh Symposium on Electron, Ion, and Laser Beam Technology Conference Record, San Francisco Press, 1971, pp. 89-102.

Tribal Publications

As a member of the Choctaw Indian Tribe of Oklahoma, I have authored several nontechnical articles for the tribal newsletter, Bishinik. Publication references will be provided upon request.

Non-Technical Publications

Homeowner and Home Buyer Interest Rates at a 27-Year Low, Valliant Leader, Vol. IX, No., 40, January 8, 1992, p. 4.

I serve as a writer for the Valliant Leader (home town newspaper) 1996 to the present time. I write articles for publication in both English and the Choctaw language (a Native American language understood by many of the people in this local area).

Papers Presented

“Clean fuel for future multi-megawatt electrical power generation and heating,” by Howard Phillips and Thomas H. Pike, Energy, Utility & Environment Conference (EUEC 2012), Jan 30, 2012, Phoenix Convention Center, Phoenix, AZ

“Financial Forecasting Using Adaptive Signal Processing In A Multidisciplinary Design Environment,” by D. H. Phillips, C. D. Abernathy (my PhD student), and B. K. Lambert (my M.S. student), presented at the International Conference on Signal Processing Applications & Technology, Dallas, Texas, 10/19/00.

“Creating An Adaptive Market Forecasting Methodology To Effectively Anticipate Changes To Your Target Market,” Strategic Market Forecasting Conference, Institute for International Research, New Orleans, LA September 15, 1998.

“How to Make an A,” presented at the North Carolina School Counselor Association fall conference, with Craig Fulton, Winston-Salem, NC, 11/14/98.

“Multidisciplinary Design Best Practices Within the Southeastern University and College Coalition for Engineering Education (SUCCEED), by D. H. Phillips, presented at the Integrating Design Into The Engineering Curriculum Workshop, Dallas, Texas, March 21, 1998.

“Forecasting the Growth of the Communications Industry Relative to Other Business Sectors,” by D. H. Phillips, Conference Record, Market Forecasting for the Telecommunications Industry, New Orleans, LA, 9/29-30/97.

“A Multidisciplinary Course Sequence Stressing Team Skills, Conceptual Design, Creative Problem Solving, Professional Practice, and Computing Skills for Students entering The William States Lee College of Engineering,” by W. Shelnett, et. al. (11 co-authors, including Howard Phillips), Conference Proceedings, ASEE Annual Conference, June 10-15, 1997.

“Student Success at UNC Charlotte,” by Craig Fulton and Howard Phillips, presented at the Southern Association of College Admission Counselors (SACAC) Conference, Atlanta, Georgia, 5/28/97.

“Global Business and Investment Decisions Using Artificial Intelligence Forecasting,” by D. H. Phillips, S. A. Moore, and J. D. Warfel, Global Business National Conference, Dallas, Texas, November 23, 1996.

“Proactive Retention: How to Make an ‘A’,” by Howard Phillips and Daryl L. Kerr, Strategies for Increased Retention Conference, Fayetteville State University, May 31, 1996.

“Practical Ways to Interpret Price Forecasts and Invest Profitably,” International Association of Business Forecasters, San Antonio, Texas, May 3, 1996.

Tutorial session: “Interpreting Price Forecasts and Investing Profitably,” International Association of Business Forecasters, San Antonio, Texas, May 3, 1996.

“Adaptive Forecasts for the Communications Industry,” International Communications Forecasting Conference, Dallas, Texas, April 18, 1996.

“Artificial Intelligence and Forecasting Theory,” presented at INFO EXPO, January 21, 1995, Raleigh, NC.

“Adaptive Program Trading - Artificial Intelligence Research for Applications in Financial Transaction Management and Program Trading,” North Carolina Symposium on Artificial Intelligence, Research Triangle Park, NC, February 17, 1989.

“Microelectronics Research and Packaging,” SEMICON-East Ceramic Packaging Meeting, July 14, 1988.

“The Influence of the SRC on Engineering Education,” by D. H. Phillips and R. K. Cavin, ASEE Engineering Education magazine, 1987.

“University/Industry Research and Education Needs of the American Semiconductor Industry in the 1990s,” American Society for Engineering Education Conference, Reno, Nevada, June 23, 1987.

“Intelligent Semiconductor Fabrication Equipment,” by D. H. Phillips and R. K. Cavin, SRC/DARPA Computer Integrated Manufacturing Workshop, Massachusetts Institute of Technology, Boston, Mass., June 3, 1987.

Keynote address: “Semiconductor Factory Automation and Data Management Research,” Data Processing Management Association Conference, February 12, 1987.

Keynote address: “Integrated Circuit Manufacturing in 1995,” for Metallurgical Society TMS Meeting, Orlando, Florida. Published in Intelligent Processing of Materials and Advanced Sensors, symposium proceedings, 1987.

“Manufacturing Science Research Initiatives for the Future Directions in Manufacturing Science: University/Industry Research and Education Needs of the American Semiconductor Industry in the 1990s,” IEEE International Electronic Manufacturing Technology Symposium, San Francisco, California, September 15, 1986.

“Semiconductor Industry,” SEMICON-East, Boston, Massachusetts, September 16, 1986.

“Semiconductor Manufacturing Research in the U.S.,” presented to the National Academy of Sciences, Manufacturing Studies Board, Electronics Automation Subcommittee, Washington, D.C. June 25, 1986.

“Advanced IC Packaging Technologies,” IEEE Components, Hybrids and Manufacturing Technology Society (CHMT) and the International Electronics Packaging Society (IEPS) Boston, Massachusetts. June 9, 1986.

“Measurement Science and Manufacturing Science Research,” Electronics Reliability and Measurement Technology Conference, NASA Langley Research Center, Hampton, Virginia, June 3, 1986.

Luncheon address: “Space Systems Electronics Technology Forecast,” presented to the Electronics Industry Association, Los Angeles, California, October 10, 1984.

“Aerospace Requirements for VLSI Circuits,” PARC-1984 VLSI Conference, Melbourne, Australia, May, 1984.

“Gallium Arsenide ICs in Space & Nuclear Radiation Environments,” AIAA 21st Aerospace Sciences Meeting, Reno, Nevada, January, 1983.

“GaAs ICs for the 1980s,” presented to a combined meeting of the Orange County Chapters of IEEE Electron Devices and IEEE Circuits and Systems, Newport Beach, California March 17, 1981.

“Technology Forecast for the Development of SOS Integrated Circuits,” presented at SEMICON-Europa, March 12, 1981.

“VLSI Technology Trends,” presented at Advanced Semiconductor Equipment Exposition, San Jose Convention Center, San Jose, California, January 27, 1981.

“Technology Forecast for the Development of GaAs Integrated Circuits,” 1980 International Symposium on Gallium Arsenide and Related Compounds, September 22, 1980.

“High-Speed SOS and GaAs IC Testing in the 1980s,” by D. H. Phillips and D. O. Wilson, SEMICON WEST, San Mateo, California, May 21, 1980.

“Gallium Arsenide and Silicon-on-Sapphire Technology Development,” Session III, ASEE Conference, San Jose, California, January 23, 1980.

“GaAs Materials Technology Challenges for IC Applications,” , Electronic Materials Symposium, sponsored by AIME, March 13, 1980. (Invited paper)

“Gallium Arsenide Integrated Circuits for High-Speed Data Processing,” High-Speed Data Processing Symposium, Orlando, Florida, November 8-9, 1979.

“Comparison of SOS and Gallium Arsenide Integrated Circuits,” Paper No. 322, 156th meeting, Electrochemical Society, Los Angeles, California, October 17, 1979.

“Business Projection and Technology Trends for Applications of Gallium Arsenide Integrated Circuits,” Paper No. 482, 156th meeting, Electrochemical Society, Los Angeles, California, October 17, 1979.

“Outlook for the Development of Gallium Arsenide Circuits,” Paper No. 1, IEEE Gallium Arsenide Integrated Circuit Symposium, Lake Tahoe, Nevada, September 27, 1979.

“Quality Assurance Aspects of Silicon-on-Sapphire and Gallium Arsenide Integrated Circuits,” American Society for Quality Control Tenth Annual California Quality Week Conference, Millbrae, California, March 16, 1979. (Invited Paper)

“Microelectronic Gallium Arsenide R&D - Where will it be in 1985?” presented at the Lockheed Research Colloquium, Lockheed Research Laboratories, November 30, 1978.

“High-Speed IC Development, High Speed Gallium Arsenide Integrated Circuit Design Technology,” by D. H. Phillips and H. L. Petersen, presented to the AIAA Conference on Smart Remote Sensors, November 14-16, 1978.

“Gallium Arsenide and Silicon-on-Sapphire FET Comparison - Speed Performance and Radiation Effects,” by D. H. Phillips, D. Kinell, and J. C. Pickel, presented at the 1978 IEEE SOS Workshop, Vail, Colorado, October 5, 1978.

“Compound Semiconductor Device R&D in the United States and Abroad,” presented to the American Defense Preparedness Association, Electronics in NORAD Symposium, September 13, 1977, at the U.S. Air Force Academy, Colorado Springs, Colorado.

Technical symposium sponsored by the Electronics Division of the ADPA.

“Materials Aspects of SOS Device Radiation Hardness,” presented at the 150th Meeting of the Electrochemical Society, Las Vegas, Nevada, October 20, 1976. (Invited paper)

“Effects of Defects and Impurities in Starting Materials on Characteristics of CMOS/SOS Devices,” by D. H. Phillips, J. L. Peel, and M. D. Barry, presented at the 1976 SOS Technology Workshop, Stanford University, August 1976.

“Radiation-Hardened CMOS/SOS Process Characterization,” presented at June, 1976 Meeting of ASTM Committee F-1 in Denver, Colorado.

“Radiation Hardening of MOS Integrated Circuits on (111)Silicon,” 1975 IEEE Nuclear and Space Radiation Effects conference, Eureka, California, July 14-17, 1975.

“CMOS/SOS NAND Gate Sapphire Photocurrent Compensation,” 1975 IEEE Nuclear and Space Radiation Effects Conference, Eureka, California, July 14-17, 1975.

“SOS Impurity Analysis,” presented to ARPA/NBS Workshop IV, Surface Analysis for Silicon Devices, National Bureau of Standards, Gaithersburg, Maryland, April 23, 1975.

“Radiation-Hardened MOS Electronics,” presented to IEEE Nuclear and Plasma Sciences Society, Los Angeles, California, November 12, 1974.

“Design Theory for Optimum Radiation Hardened CMOS/SOS Integrated Inverter Circuit,” by D. H. Phillips and R. A. Kjar, presented at the 1974 Government Microcircuit Applications Conference, University of Colorado, Boulder, Colorado, June, 1974.

“Silicon-on-Sapphire Device Photocurrent Predictions,” presented at the 1974 IEEE Conference on Nuclear and Space Radiation Effects, Colorado State University, July 1974.

“Surface Passivation of GaAsP,” by D. H. Phillips, L. E. Coerver, W. Grannemann and G. J. Kuhlmann, presented at the International Electron Devices Meeting, Washington, D.C., October 12, 1971.

“Advances in Microwave Logic GaAs Integrated Circuits,” Nuclear and Space Radiation Effects Conference, Special Session on VLSI Circuits, University of Washington, Seattle, Washington, July 21-24, 1981.

“VHSIC Technology Utilization in Future Spacecraft Systems,” University-Government-Industry Conference, Mississippi State University, May 26, 1981. (Invited paper)

“High-Speed VLSI,” Midwest Symposium on Circuits and Systems,” Albuquerque, New Mexico, June 29-30, 1981. (Invited paper)

EDITORIAL CONTRIBUTIONS

Guest Editor, Solid State Technology, special SEMICON issue, May, 1987.

Member of the Editorial Advisory Board, III-IV Technology Review Magazine (1986-1988).

Technical Editor, Defense Systems Review magazine (1983-1985).

Guest editorial, Microwave Systems News (MSN), Feb. 1982, p33.

Member of the Editorial Board, Microwave Systems News magazine (1980-1985).

Technical Advisor to the editor, Military Electronics magazine (1979-1983).

PROFESSIONAL REGISTRATION, PATENTS AND LICENSES

Professional Registration

Registered as a professional engineer in the State of California (EE7114). Previously registered in New Mexico (#49801, 1971), and Oklahoma (ET1473), 1964).

Registered as an investment advisor with the Securities and Exchange Commission; 1993 to 1999 and with the Securities Division in the State of North Carolina (1993 to 2002).

Patents

U.S. Patent number 5,109,844, issued May 5, 1992, entitled Intraocular Visual Prosthesis and Retinal Microstimulation, with Eugene de Juan, M.D., Mark S. Humayun, M.D., Dyson Hickingbotham. This patent covers a method for using a microcircuit, similar to a computer microchip, implanted in a blind eye to restore vision to humans. Research associated with this project led to successful animal trials and is now proceeding through successful human surgical trials.

Microelectronics patents granted/filed in the United States, Canada, France, West Germany, Great Britain and Japan. For example, U.S. Serial No. 858,049, filed December 6, 1977.

Licenses

FCC First Class Radiotelephone Operators license (commercial). First issued in 1962. License is currently active.

FCC Extra Class operators license (amateur radio). First licensed as a ham radio operator in 1957, licensed as an Extra Class operator in 1968. License is currently active.

NATIONAL COMMITTEES, PROFESSIONAL CONFERENCE LEADERSHIP

Conference Chairman, Market Forecasting for the Telecommunications Industry conference, New Orleans, LA, 9/27-30/97.

National Research Council, Board of Assessment of NIST Programs, Panel for Electronics and Electrical Engineering, member from 6/92 through 6/95.

Program Committee, MCC-University Research Symposium, Austin, Texas, July 14-15, 1987.

Session Co-chairman for the International Symposium on Gallium Arsenide and Related Compounds (1986).
Session title: High Speed Devices.

Session Chairman for the 1986 MILCOM Conference. Session title: Microwave Gallium Arsenide IC Technology and Applications.

Technical program organizer for the December, 1984, meeting of the Los Angeles IEEE Nuclear and Plasma Sciences Society.

Session organizer for the 1984 MILCOM Conference. Session Title: GaAs Microwave ICs.

Technical Program Chairman for the EIA/USAF Space Electronics Conferences (1982 and 1983).

Technical Program Chairman for the SEMICON Technical Symposium (1982).

Session Chairman for the 1981 AIAA Computers in Aerospace III Conference. Session title: Microelectronics Technology.

Conference Chairman for the ASEE Technical Symposium (1981).

Vice-Chairman for the IEEE GaAs IC Symposium (1981 and 1982).

Session Chairman for the Government Microcircuits Applications Conference (GOMAC, 1980).

Session Chairman for the Electrochemical Society Conference (1980).

Conference Chairman for the IEEE GaAs IC Symposium (1979 and 1980). Served as organizer and General Chairman in 1979 during the planning of the first annual GaAs Ic Symposium. <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7153037>

Session Chairman for the SEMICON Conference (1980).

Conference Chairman for the IEEE SOS Technology Workshop (1977).

Technical Program Chairman for the IEEE SOS Technology Workshop (1977).

Session Co-chairman for the 150th Electrochemical Society Meeting (1976).

PROFESSIONAL ORGANIZATION MEMBERSHIPS (past and current)

National Management Association

Phi Kappa Phi Honor Society

Sigma Tau, Chi Chapter, University of New Mexico

National Society of Professional Engineers

Electrochemical Society

Oklahoma Society of Professional Engineers

California Society of Professional Engineers

IEEE, Nuclear Science, Solid State Circuits, and Electron Devices Groups

American Nuclear Society, University of Oklahoma

Engineers Club, Eastern Oklahoma State College

EXTRACURRICULAR ORGANIZATIONS AND MEMBERSHIPS

Amateur Radio Club, Oklahoma State University

American Radio Relay League

Editor, Valliant School Newspaper

HONORS, OFFICES HELD AND CITATIONS

2000 - Nominated for the ALCOA Foundation Outstanding Faculty Award in recognition of outstanding performance in graduate education.

2001 - Nominated for the ALCOA Foundation Outstanding Faculty Award in recognition of outstanding performance in undergraduate education.

Elected Secretary, Sigma Xi (UNC Charlotte chapter), 4/2/98 to 1999.

Ph.D. degree conferred with academic honors (1972).

President of UNM Sigma Tau (honor society in the College of Engineering), 1971-1972.

Vice President of the University of Oklahoma American Nuclear Society (1965 and 1966).

President of the Oklahoma State University Amateur Radio Club (1963).

Vice President of the Oklahoma State University Amateur Radio Club (1960-1963).

Awarded citation from Electronic Design News (EDN) magazine for technical contributions to EDN's silver anniversary issue, which was awarded the 1982 Neal Editorial Achievement Award for Best Subject Analysis - the highest honor in the business press.

BIOGRAPHICAL ACKNOWLEDGMENTS

Platinum edition of Who's Who Worldwide, 1992

Leaders in Electronics, Charter Edition, 1979

International Who's Who in Engineering, First Edition and later editions

Who's Who in America, Eighteenth Edition and later editions

Who's Who in the West, Nineteenth Edition and later editions

Men of Achievement, Ninth Edition and later editions

Who's Who in California, Fourteenth Edition and later editions

Two Thousand Notable Americans, Second Edition and later editions

Personalities of the West and Mid-West, Eighth Edition and later editions

Personalities of America, Second Edition and later editions

Community Leaders of America, Twelfth Edition and later editions

Who's Who of Contemporary Achievement, 1984 edition and later editions

PROFESSIONAL DEVELOPMENT

Wild Acres Teaching Methods Conference, 5/97, 5/98, 5/99 and 5/01.

Quality Leadership Showcase, 4/21/98.

PHARMACEUTICAL INVENTIONS -- product research and developments

The following are R&D participations through Phillips Company:

We believe things that were impossible can be made to be possible. Only 20 years ago, it was believed that blindness could not be cured. Now, many forms of **blindness can be cured** using an FDA-approved artificial vision technology. I was pleased to have been a co-inventor of that technology. It is now available in the USA and Europe and restoring vision to blind humans will soon be available in many other parts of the world. Ref: Document AV.pdf

We believe things that were impossible can be made to be possible. For many years, it was believed that the treatment of snakebite required the use of a species-specific antivenom. If a person was bitten with a rattlesnake, it required *rattlesnake antivenom* to effectively treat the snakebite. Now, we have shown that it is possible to develop a **universal antivenom** that seems to be very effective for all venoms, including snake venoms, spider venoms, and even insect venoms. The technology is available as an OTC drug used as an ‘off label’ treatment because the FDA has no monograph regulatory path for the registration of any OTC antivenom product. However, it can be registered as an Rx product following NDA requirements established by the FDA. The technology is called VenomX. Ref: Document VXFT.pdf

We believe things that were impossible can be made to be possible. Most drugs can be delivered into the body ONLY with the use of injections or pills. Transdermal delivery has been limited to only a few applications (Example: nicotine patches). We began our topical-products company with the belief that a much more effective transdermal delivery system (TDDS) could be developed. We have done that. It is now possible to deliver antibiotics and other drugs into the blood stream using transdermal delivery. We believe **we have developed the world’s most effective transdermal delivery formulation**, and that formulation can deliver a therapeutically-adequate concentration of almost any active ingredient within 24 hours to a depth of 2.5 cm below the skin. We have disclosed our testing methodology to support this claim so that our results can be verified independently. Using this advanced TDDS formulation, we have shown that a simple “rub-it-on-the-skin” formulation can be used to cure MRSA. This is discussed in more detail below.

We believe things that were impossible can be made to be possible. Tetracycline is one of the most used antibiotics in the history of the world. "Broad-spectrum" antibiotics work well on numerous organisms; thus, tetracycline has proved effective against acne, chlamydia, cholera, rickets, and various lung and eye infections, among many other conditions. The development of tetracycline liquid products, for topical application, was thought to be impossible, because of the oxidation-induced aging of the molecule when it is in a liquid form containing even small amounts of water. Because of this, commercial liquid tetracycline products from other companies have been withdrawn from the market because it was not possible to maintain the required stability and shelf life. We solved this “impossible problem” by using new formulation chemistry. **Phillips Company developed the world’s first tetracycline liquid products, for topical application, that can maintain stability and adequate shelf life for up to 4 years, when stored at room temperature.** The first of these products was Tetracycline-ABC, followed by Diabecline, and then TetraStem for inducing stem cell healing using only a simple “rub-it-on-the-skin” topical formulation. Ref: Document entitles CC.pdf

We believe things that were impossible can be made to be possible. AIDS is a killer. MRSA is an even worse killer. More people die each year in the USA due to MRSA related infections than from AIDS infections, according to the Centers for Disease Control (CDC). Only 5 years ago, it was believed that a simple topical application could not possibly be made to cure MRSA and staph infections. Now, we have shown that **a simple “rub-it-on-the-skin” formulation can be used to cure MRSA**. MRSA usually begins as a topical infection, then proceeds to a systemic infection. To cure early-stage MRSA topical infections, a non-antibiotic formulation can be used to completely cure the infection. Ref: Document entitled Staphwash.pdf To treat systemic MRSA infections (when the bacteria is colonized in the bloodstream), a simple “rub-it-on-the-skin” formulation can be used, with a strong transdermal delivery system. The human MRSA cure results are described in the following document: Tonya.pdf

We believe things that were impossible can be made to be possible. Only 5 years ago, it was believed that a simple topical application could not possibly be used to prevent diabetic amputations. Now, we have shown that a simple “rub-it-on-the-skin” formulation can be used to to treat lower-extremity diabetic ulcers, heal the lesion, and **prevent diabetic amputations**. Ask Phillips Company for the confidential document:

DiabeticClinicalInvestigation.pdf

The formulation is called Diabecline and it is being used extensively for the advanced successful treatment of diabetic ulcers. Based on the use and results of this drug in clinical medical practice, there is reason to believe that **virtually all diabetic amputations can be prevented**. The formulation is available from multiple sources under the brand names of **Diabecline**, Viabecline and TetraNext. Ref: Document entitled DI.pdf

Diabecline is the world’s only antimicrobial antibiotic that also functions effectively as an anti-fungal topical drug, as demonstrated by a recently-completed clinical study using this new drug to treat onychomycosis (**toenail fungus**). Diabecline is a simple “rub-it-on-the-skin” formulation, with no known side effects. “The results were very encouraging with an approximate 80% success rate,” said the physician who completed the study. According to the manager of the study, “Onychomycosis affects approximately 5% of the worldwide population. One of the more popular medications on the market has a 17% success rate and can cost as much as \$500 per 4 mL bottle. Americans currently spend about \$1.26 billion annually on oral and topical prescriptions for nail fungus, according to IMS Health, a health care information company. Industry analysts and executives estimate that more effective treatments could expand the market to as much as \$3 billion annually.”

Diabecline is the world’s only antimicrobial antibiotic that has also been tested and found to function effectively as an anti-viral topical drug. These test results are preliminary. More clinical evaluation is needed to establish the effectiveness of this new drug, when used to treat **herpes** [simplex 1 (**cold sores**), and simplex 2 (**genital warts**)]. Initial results indicate that this new drug can treat, and may even **cure herpes**. If these evaluations are confirmed in larger trials, this new drug is expected to become the **world’s first tripple-acting drug that is effective (1) as an antibacterial antibiotic, and (2) as an antifungal treatment, and (3) as an anti-viral treatment**. Commercialization of such a blockbuster development would be far beyond the capabilities of our small company. Accordingly, this new drug, and the underlying technologies have recently been made available for licensing or sale to larger companies for commercialization. It has been licensed to two companies with manufacturing plans and is available to other companies.

We believe things that were impossible can be made to be possible. Only 5 years ago, it was believed that a simple topical application could not possibly be made to induce adult **stem cell healing**. Now, we have shown that **a simple “rub-it-on-the-skin” formulation can be used to convert adult cells into adult stem cells that can heal injuries**. This was first demonstrated in animal experiments demonstrating the regrowth of muscle, tendon and new skin tissue, complete with the growth of fur, with no scar tissue. The stem cell photographic record of healing is described in a document entitled DOG.pdf

We believe things that were impossible can be made to be possible. An amazing discovery is that, for the first time on earth, there may be a **cure for sarcoidosis**. What is sarcoidosis? Sarcoidosis is a chronic disease that affects multiple systems in the body, from the eyes to the lungs to the brain. It is characterized by the buildup of immune system cells in organs that form small clusters called granulomas, a type of inflammation of the involved tissues. Ref: <http://www.webmd.com/lung/understanding-sarcoidosis-basics>

Sarcoidosis is found throughout the world. Sarcoidosis is not cancer; nor is it contagious. Although it can occur in families, it is not inherited. Usually the disease is not disabling; most people with sarcoidosis live normal lives. In fact, in the majority of cases, the disease appears only briefly and disappears on its own. About 20% to 30% of people with sarcoidosis are left with some permanent lung damage, and in 10% to 15% of patients the disease is chronic. Although it is rare, death from sarcoidosis can occur if the disease causes serious damage to vital organs, such as the brain, lungs, or heart.

We believe we have experienced the first two **sarcoidosis cures**. But, we can't be certain about that, because, as mentioned above, the disease appears only briefly and disappears on its own. Tetracycline-ABC was used to successfully treat the first two cases. We believe TetraStem can be even more effective in the treatment and possible cure of sarcoidosis. The reason we believe we have achieved a cure is that, in both cases, the disease was chronic, but went into remission within a month after treatment began. Before we can be certain that we can cure sarcoidosis, we must have more data. The third multi-year chronic sarcoidosis patient (S.M.) is now carrying out a 6-month trial using TetraStem.

We also have a drug for treating **tick fever**, a condition for which there is no known cure. We carried out a local study because of a **Lyme disease** outbreak in McCurtain County, Oklahoma in 2013. Ref. Document entitled Tick.pdf

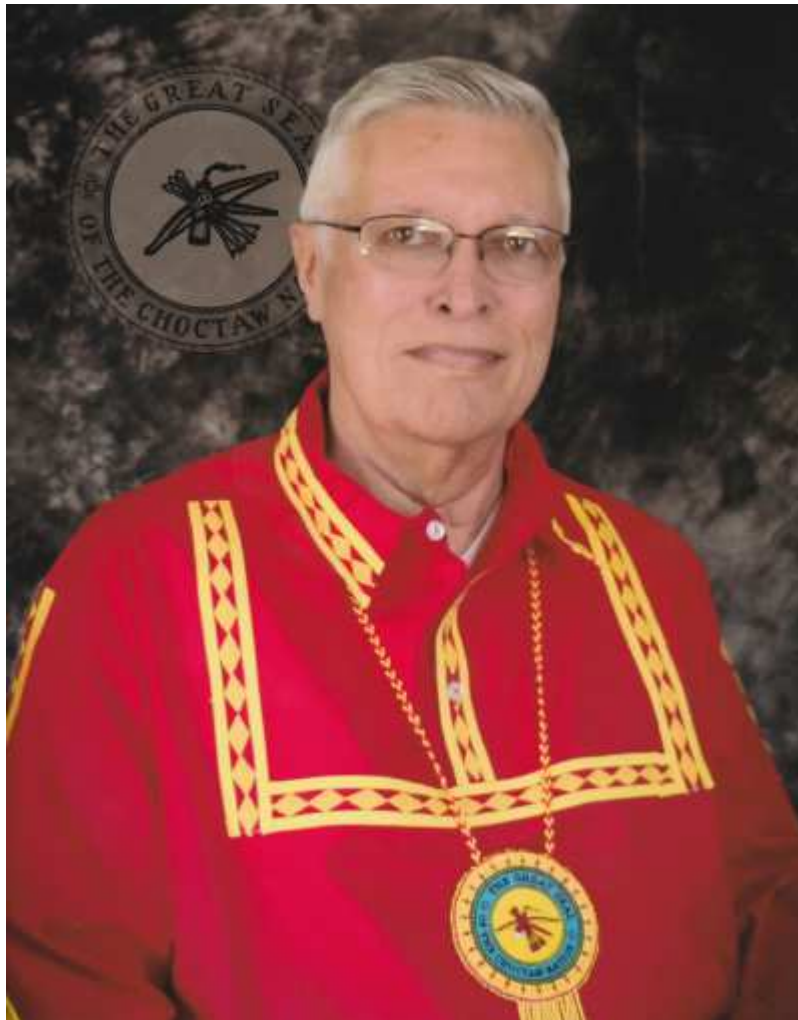
In 2018, we began field tests of a new nasal swab which promises to **PREVENT the onset of the common cold and the flu**. The nasal swab is to be used 3 to 5 times daily. The swab is all solid state metals and lasts indefinitely. The effectiveness has shown to be good in preliminary field test evaluations. For more information, contact Phillips Company.

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SECTION 2 -- Personal Resume and Biography



Designated **Outstanding Citizen of the town, in Millerton, Oklahoma**, in 1993. Each year, one citizen was selected to receive this honor.



Howard Phillips, Outstanding Choctaw Elder, 2018

Each year, two people (one male and one female) are designated Outstanding Elders of the Choctaw Nation

The Choctaw Nation of Oklahoma is a federally recognized American Native Indian Tribe with a tribal jurisdictional area comprising 10.5 counties in Southeastern Oklahoma; with a tribal membership of almost 200,000 citizens. I was designated as an outstanding elder of the Choctaw Nation in 2018.

This is the most valued recognition and honor received by me during my lifetime. 

Community *McCurtain Gazette News*
Weekend, October 6-7, 2018 Section B, Page One



Chief Gary Batton, Howard Phillips, Nellie Hunter and Assistant Chief Jack Austin, Jr. are pictured at the 19th Annual Outstanding Elders Banquet. (Photo by Apryl Mock of the Choctaw Nation)

Phillips honored as Outstanding Elder

Community

McCurtain Gazette - News

Weekend, October 6-7, 2018

Section B, Page One

Phillips honored as Outstanding Elder

DURANT - Choctaw Nation recognized its Outstanding Elders on Oct. 2 at the Choctaw Casino & Resort - Durant.

Choctaw elders from each of the 12 districts were recog-

nized and celebrated for their positive impact in and out of the Choctaw Nation.

Howard Phillips of District 1 and Nellie Hunter of District 12 were named the overall winners at the 19th Annual Outstanding Elders Banquet.

Phillips is a resident of Millerton. He holds a Ph.D. degree from the University of New Mexico, a master's degree from the University of Oklahoma, and a bachelor's degree from Oklahoma State University.

Phillips is an author of more than 100 scientific and engineering papers, an inventor with many patents, and his research has resulted in new pharmaceutical products that help prevent diabetic amputations.

In his spare time, he volunteers as a writer for the Valliant Leader newspaper, is an active tribal member and attends weekly senior citizen meetings.

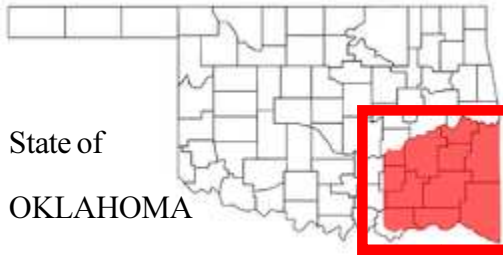
Hunter of Tupelo was recognized at the banquet for being more than a Choctaw Nation Outstanding Elder.

Hunter also received the AARP Indian Elders Award and was presented the medalion by Chief Gary Batton at the banquet. The AARP Indian Elders Honors banquet was also held on Oct. 2. Hunter chose to attend the Choctaw elders banquet saying, "These are my people, this is my family."

Hunter moved to Tupelo in 1993 where she became a caregiver for special needs children and adults.

Hunter graduated with a Bachelor's degree in Organizational Leadership at the age of 75. She has been a member of the Choctaw Color Guard for more than 20 years, served as secretary and treasurer of the Choctaw Veterans Association for 10 years and is a member of the Choctaw Code Talkers Association.

There were 34 nominated for the Outstanding Elders award. "We're resilient, we're strong, we're Tvshka," said Chief Gary Batton, expressing how proud he was of the Choctaw elders.



State of
OKLAHOMA

The tribal jurisdictional area is 10,864 square miles.

The Choctaw Nation is divided into 12 districts, each having an elected member of the Tribal Council.



My home is located in Millerton, Oklahoma;
in District 1, Choctaw Nation

Speech contest -- first place -- Valliant High School -- Freshman year, 1956

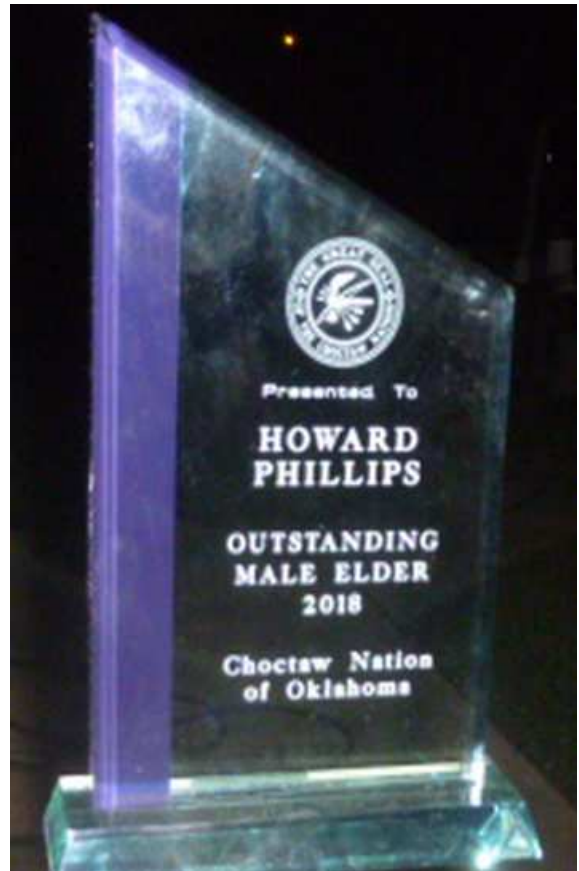


He is a Choctaw tribal member who retired from industry and university teaching and is now a resident of Millerton, Oklahoma within District 1 of the Choctaw Nation of Oklahoma. He holds a PhD degree from the University of New Mexico; a Masters degree from the University of Oklahoma and a Bachelors degree from Oklahoma State University. He is an inventor with patents in the fields of biomedical engineering, electrical engineering, computer science and the production of hydrogen for future clean-fuel applications. He is the author of more than 100 engineering and scientific papers.

His research has resulted in a new pharmaceutical product that has been successful in preventing diabetic amputations. This drug has been licensed to a larger pharmaceutical company for manufacturing and commercialization.

Another highlight is that he is the co-inventor of the worlds first and only artificial vision therapy that is fully FDA approved to restore vision to blind humans.

As professor emeritus and a former college teacher, his continuing research is part of his work as the owner of Phillips Company. He manages the technology and product licensing business, even as he is semi-retired. This research is documented online at www.PhillipsExport.com



He is a volunteer writer for the Valliant Leader newspaper, a weekly newspaper published in Valliant, Oklahoma. His publications include reports of interest to Choctaws, including the recent opening and dedication of a new Choctaw Community Center in Broken Bow, Oklahoma; and another article highlighting the Choctaw summer program at Camp Israel Folsom, located near Bethel, Oklahoma.

As a tribal member, his activities include regular attendance at weekly senior-citizen meetings and other tribal functions. He served as an informal liason to Choctaw supporters and donor groups from England and Ireland. He coordinated the donation of an American Bison (buffalo) pelt to the Choctaw Nation from an Irish donor who traveled to Tushkahoma to present the pelt to the Choctaw Nation in 2018.

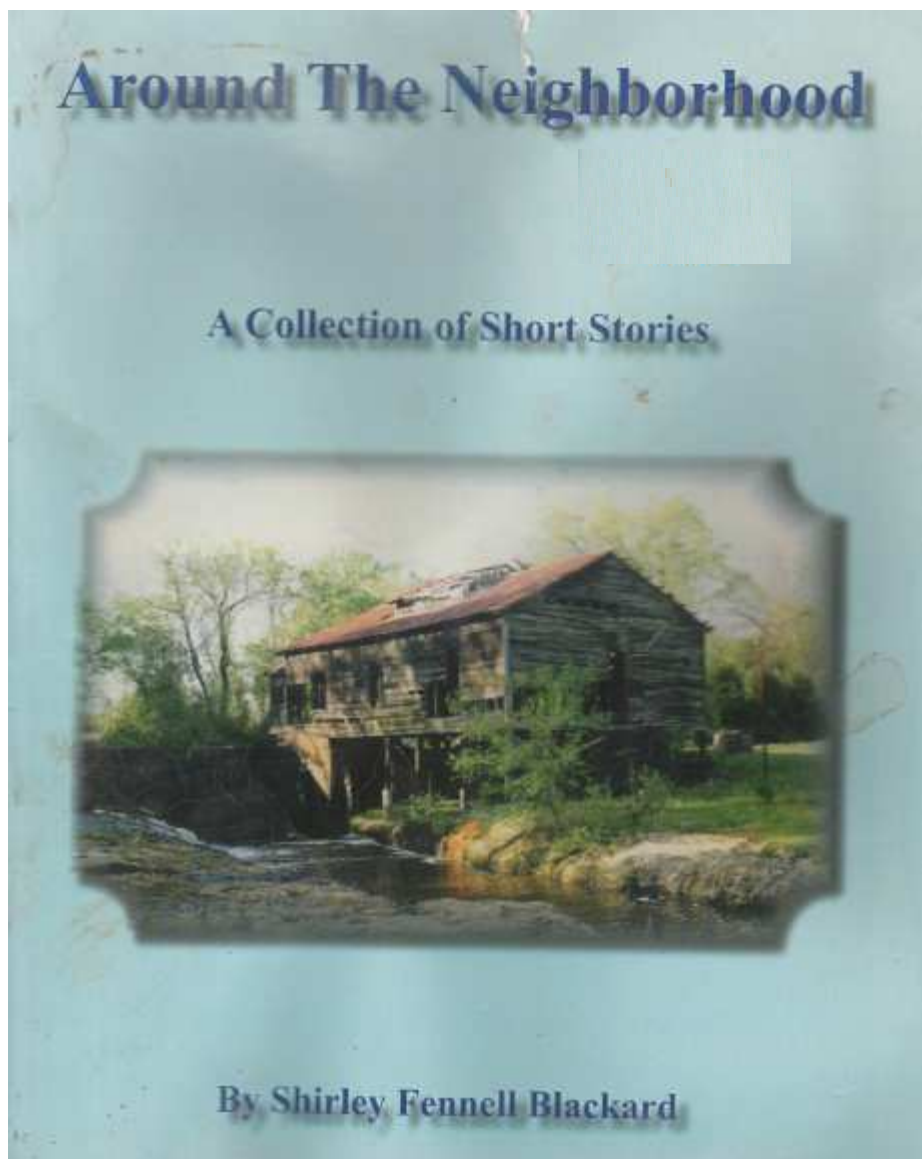
He served as an advocate to notify Choctaw land owners of planned land takeover by the government in 2018. The McCurtain Gazette newspaper published the names of 2000 land owners whose property can be taken by the government because of delinquent taxes. Many of these land owners are Choctaws. Many Choctaws do not read newspapers, because of limited education and their residential remote locations including Bethel, Battiest and other rural areas. This is Oklahoma land that was granted to the Choctaws in exchange for Mississippi land that was taken from the Choctaws in treatys signed in 1820 and 1830. Now, the government imposes taxes on that land and plans a takeover of that land after publication of notifications in local newspapers, unless taxes are paid.

He attends church at St. Mathew Indian Presbyterian Church, near Eagletown, Oklahoma

Family History

Many years ago, my father was designated the **Outstanding Citizen of the Year** for the town of Millerton.

My family history is included in this book, written by Shirley Fennel Blackard; based on published articles she had written for the Valliant Leader newspaper.



The following pages are from this book.

(Published Sept. 20, 1989)

The Honorable Judge Howard Phillips

“The Honorable” was a title of courtesy and respect that was accorded Judge Howard Phillips for the 24-years he served as District Judge of McCurtain, Choctaw and Pushmataha Counties in Oklahoma. But the words have a far greater meaning than a title for the man, D. Howard Phillips.

Born in Hugo, OK, Judge Phillips was a small baby when his family moved to Millerton, OK.

Now, age 79 and retired, he and his wife, Bess still live in Millerton where they have lived all their married life except for short periods of time when his employment required they live in Oklahoma City then for a few years in the south and a little while on the east coast.

Judge Phillips' father was killed when he was six and being reared without a father, he learned to work hard. He was earning his own money at a very young age besides having the responsibility of helping his mother on the farm.

Honor was a way of life for the Judge. His mother instilled in him a strong sense of what was right and he grew up believing in strict moral standards. He was proud of what he had and worked hard to accomplish any task that he attempted.

He worked all during his high school years to help with his school expenses and graduated from Valliant High School at the age of sixteen.

He enrolled in college at Southeastern State Teachers College in Durant, OK and received his teaching certificate after completing his first year of college.

In May 1928 he signed his first teaching contract with Glover School, a small rural school in McCurtain County. His salary was \$82 per month. “I remember boarding with the Lee Benefield family during the week,” he said. “Then, I would ride my horse home to Millerton on weekends. To cross Glover River, I would have to swim across on my horse.”

Ending the term at Glover, he began teaching the next year at Mound Grove, a small school north from Valliant. “There were two teachers at Mound Grove and I was the superintendent,” he said proudly.

Some of his Mound Grove students recently came by to visit the Judge and reminisce about their school days.

“I remember one incident that happened at Mound Grove,” recalled Robert Woolsey, one of his students. “Mr. Phillips went to the back of the room and laid down on a bench. He started to snore, making us believe that he was asleep. Of course, with his back turned, some of us began playing and having some fun. He suddenly got up and began pouring it on us for acting up in class.”

Another student, Nealon Davis recalls one particular April Fool's Day. “A bunch of the kids decided to play hooky. The next morning, Mr. Phillips arrived at school early and set up a chair in the cloakroom with a coat over the back of it. When the kids all came in, he took the first one in the room. He started using his paddle on the coat. But he told the student that he had better cry and holler otherwise he would really get a whipping. Needless to say, by the time the first student had returned to the classroom all the other kids were scared to death. By-the-way, I wasn't one of them who played hooky,” Nealon noted.

Marie Staggs says the thing that she remembers most about her days at Mound Grove and Mr. Phillips, was that he was only 19 and all the girls thought he was very handsome. Marie's sister, May Rogers Voyle was very fond of her teacher. Following a recent visit with him, she returned to her home in California and mailed back to him a plate that she hand-painted depicting those days at Mound Grove.

Other schools where he taught included Hugo and Smithville. During the summer months and during breaks when children were dismissed to help with cotton crops, he would go back to school at Durant, determined to get his college degree.

After receiving his Bachelor's degree at Southeastern, he returned home and worked at Millerton Lumber Company. Judge Phillips remembers a friend that he went to school with at Durant coming by to see him one day. The friend was on his way to Lebanon, Tennessee to enter law school. “I decided to go with him,” the Judge said. “I drew my wages of \$12.40, sent a message to my mother saying where I was going

and to mail my clothes to me. I mowed yards, washed dishes, made beds in the dorm, waited tables and sold newspapers to make enough money to stay in school.”

In May 1933 he was awarded his Bachelor of Law Degree from Cumberland University.

He returned to Oklahoma and began practicing law with Judge Barrett in Hugo. One year later, he set up his own law practice in Idabel. In July 1936 he decided to run for County Attorney.

He ran a campaign on the promise of getting rid of slot machines, marble boards, punchboards, illicit liquor traffic, honkytonks and dance halls of ill repute.

At the age of 26, he was elected as County Attorney by a landslide of 1000 votes more than his other two opponents together.

County Attorney Howard Phillips lost no time in gaining the respect of the law enforcement in all ranks. According to an article from the *McCurtain Gazette*, dated Jan. 13, 1937, Idabel police gave credit to the new elected County Attorney for there being no arrests made by city police for drunkenness during the first seven days of the new year. The article stated that Mayor John Sutton reported not a single arrest had been made and arrests for drunkenness by the city police had previously averaged 15-30 with some weeks as many as 40 arrests.

A quote from the *McCurtain Democrat*, Jan. 14, 1937 reads: *The first two weeks in office have been busy ones for County Attorney Howard Phillips. With the cooperation of the sheriff's department, he is making it hard on the lawless element of the county.*

The first few months in office, the County Attorney, County Sheriff Joe Hough and Deputy Sheriff James Houston embarked on a campaign that consisted of raids on people selling wildcat whiskey and rings of chicken thieves. Arrests were made in several places in McCurtain County for slot machines and liquor trafficking; also one arrest in Millerton where James Houston and Ed Richards had found whiskey at a residence. A large still was destroyed in Tom and 600 gallons of mash, and a huge distillery in the wooded country northwest of Slim with 100 gallons of mash.

An article in one of the local newspapers dated October, 1937 read: *With Phillips and law enforcement agents, the war against liquor goes on. A common remark heard from those who like to indulge in close communion with "John Barley Corn" is: It's getting harder and harder to find a drink of whiskey these days.*

In August 1938, he was in need of a court reporter and stenographer. "Joe Hough sent Bess over to me," Judge Phillips smiled. "I hired her right on the spot. And that's how I met Bess. We were married then on July 9, 1939."

In the middle of his term as County Attorney, he decided to run for District Judge but was defeated due to his age.

At the end of his term as County Attorney, he returned to private practice. Later that year, he accepted a position as head lawyer out of eight with the State Board of Agriculture. He and Bess were already married by this time and moved to Oklahoma City where they traveled all over the state for the department.

Their son, Howard, Jr. was born September 9, 1940 and one month later, he received a telegram from J. Edgar Hoover that he had been appointed as a special agent with the FBI. He was directed to report to Washington, DC on October 28. From there, he was sent to Quantico, Virginia for training. He was assigned to his first permanent office in Newark, New Jersey. It was then that Bess, with Howard, Jr. now 2 months old, boarded a train in Millerton and traveled to New Jersey to join him. "Bess was so tired when they arrived that she just threw the baby to me," he said jokingly.

He was transferred to Atlanta, Georgia in August 1941. They were in Atlanta when the Japanese bombed Pearl Harbor.

The next move was to Albany, Georgia where he was assigned for the next three years as resident agent.

His duties throughout the war years consisted of investigations of internal security matters, counter espionage, sabotage, selective service violations and general Federal law investigations. One of his assignments in March 1941 involved a raid on the premises of 24 Germans, which resulted in a round up of large quantities of espionage material, including photographs of military installations inside Fort

Benning, Georgia. Many arrests were made as a result of that raid.

He was assigned to the New Orleans field office when he submitted his resignation as an FBI agent in October 1945. He returned to Oklahoma where his plans were to run again for the office of District Judge.

On January 17, 1946, he was presented with a War Service Certificate signed by J. Edgar Hoover, director of the FBI, for his meritorious service rendered during the war period.

In July 1946, at the age of 36, he was elected as District Judge. At that time, he was the youngest judge to ever be elected in the state of Oklahoma.

While serving his 24-years as District Judge, he was credited as a judge who kept his court calendar up-to-date and didn't allow his dockets to become crowded with a back-log of untried cases. He was notorious for requiring attorneys to be on time when they had cases to be tried. He didn't tolerate the lawyers removing original papers from the court files of the district court clerk either. An article appearing in the *McCurtain Gazette* dated March 8, 1947 reads: *Attorneys were thick at the court clerk's office during the latter part of the week. And most of them were busy evading jail by returning files and papers. Judge Howard Phillips gets action with his court orders.*

He was also credited as being one of the first judges to allow the news media to have cameras in the courtrooms. He had an outstanding record of having very few cases to be reversed that he tried.

In January 1970, just prior to his retirement in 1971, he was honored with an appointment to the Appellate Division of the Judiciary Court, the highest honor that can be paid in the state to a District Judge.