# **CURRICULUM VITAE**

**Of**

**John Brooks Slaughter, Ph.D., P.E.**

**January 15, 2015**

## Profession

### Engineering, Educational and Scientific Administration

## Current Position

Professor of Education and Engineering, Rossier School of Education and Viterbi School of Engineering, University of Southern California; President Emeritus, Occidental College

## Address

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## Birthdate

March 16, 1934

**Birthplace**

Topeka, KS

**Family**

Wife: Dr. Ida Bernice Slaughter

Children: Dr. John Brooks Slaughter II, DVM

 Mrs. Jacqueline Michelle Randall

## Educational Background

University of California, San Diego; Ph.D., Engineering Science (Engineering Physics), ’71

University of California, Los Angeles; M.S., Engineering, ‘61

Kansas State University; B.S., Electrical Engineering, ’56

Washburn University, ’53

Topeka High School, ’51

## Previous Positions

President and CEO; National Action Council for Minorities in Engineering, Inc. (NACME), 2000-2009

University of Southern California; Irving R. Melbo Professor of

Leadership in Education, 1999-2000

Occidental College, Los Angeles, CA; President, 1988-1999

University of Maryland, College Park; Chancellor/President, 1982-1988

National Science Foundation; Director, 1980-1982

Washington State University; Academic Vice President and Provost, 1979-1980

National Science Foundation; Asst. Director for Astronomical, Atmospheric, Earth and Ocean Sciences, 1977-1979

University of Washington; Director of the Applied Physics Laboratory and Professor of Electrical Engineering, 1975-1977

U.S. Navy Electronics Laboratory Center, San Diego, CA; Department Head, Information Systems Technology, 1960-1975

General Dynamics Corporation; Electronics Engineer, 1956-1960

##  Honorary Degrees

Howard University, 2011

Wilkes University, 2009

Ball State University, 2007

Clarkson University, 2006

Syracuse University, 2004

Georgia Institute of Technology, 2004

California Polytechnic State University, San Luis Obispo, 2002

 Polytechnic University, Brooklyn, 2002

 McKendree College, 2000

Occidental College, 1999

###  Washburn University of Topeka, 1992

### California Lutheran University, 1991

 Alfred University, 1991

 Pomona College, 1989

 University of the Pacific, 1989

 Morehouse College, 1988

###  Kansas State University, 1988

 Bowie State College, 1987

 University of Illinois, Chicago, 1986

 State University of New York, Buffalo, 1986

 University of Toledo, 1985

 Texas Southern University, 1984

 University of Massachusetts, Amherst, 1983

 Wayne State University, 1983

 Eastern Michigan University, 1983

 University of Miami, 1983

 University of Notre Dame, 1982

 University of Maryland, College Park, 1982

 Tuskegee Institute, 1981

 University of Southern California, 1981

 Rensselaer Polytechnic Institute, 1981

## Awards

Reginald H. Jones Distinguished Service Award, National Action Council for Minorities in Engineering, Inc., 2014

Presidential Citation, American Educational Research Association, 2013

Lifetime Achievement Award, Urban Education Institute, NCA&T, 2012

Distinguished Leadership Award, New York Hall of Science, 2011

Hall of Fame, Black Engineer of the Year, 2010

Benjamin Banneker Lifetime Achievement Award, 2008

Arthur M. Bueche Award, National Academy of Engineering, 2004

Emerald Honors Conference Scientist of the Year, 2004

Reginald Wilson Award, American Council on Education, 2003

Alvaro L. Martins Heritage Award, Executive Leadership Council, 2001

### Eminent Member, Eta Kappa Nu Association, 2001

### Martin Luther King, Jr. National Award, 1997

Kansan of the Year, Native Sons and Daughters of Kansas, 1994

Hall of Fame, American Society for Engineering Education, 1993

Centennial Medal, American Society for Engineering Education, 1993

Fellow, American Academy of Arts and Sciences, 1993

Roger Revelle Award, University of California, San Diego, 1991

Engineering Hall of Fame, Kansas State University, 1990

UCLA Medal of Excellence, 1989

Phi Beta Kappa, 1988

U.S. Black Engineer of the Year, 1987

Distinguished Alumnus Award, Washburn University, Topeka, KS, 1985

1985 Unity Media Award, Lincoln University 1985

Who’s Who in Frontiers of Science and Technology, 1985

Hall of Fame, Topeka High School, 1983

Member, National Academy of Engineering, 1982

Alumnus of the Year, University of California, San Diego, 1982

Distinguished Service in Engineering Award, Kansas State University, 1981

Tau Beta Pi Honorary Engineering Society, 1980

Who’s Who in America, 1980

Distinguished Service Award, National Science Foundation, 1979

Fellow, American Association for the Advancement of Science, 1978

UCLA Engineering Alumnus of the Year, 1978

Fellow, Institute of Electrical and Electronics Engineers, 1977

Who’s Who in Engineering, 1977

American Men and Women of Science, 1976

Who’s Who Among Black Americans, 1975

IEEE Region 6 Community Service Award, 1972

“Outstanding Young Men of the Year”, National Junior Chamber of Commerce, 1969

NELC Fellowship for Graduate Study, 1969

NELC Scientist of the Year Award, 1965

Republic Aviation Award for the Best Speech on Air Power, 1955

Eta Kappa Nu Honorary Engineering Society, 1954

Sigma Tau Honorary Engineering Society, 1954

Whiting Scholarship, Washburn University, 1951-1953

## Professional Activities

Professional Engineer, Washington State (#16088)

Founding Editor, *Computers and Electrical Engineering, An International Journal,* Published by Pergamon Press (Elsevier Science)

Member, National Academy of Engineering Committee on Minorities in Engineering, 1976-1979

Chairman, IEEE Minority Committee, 1976-1980

Member, National Medal of Science Award Committee, 1979-1981

Member and Co-Convenor, National Science Board Commission on Pre-College Education in Mathematics, Science, and Technology, 1982-1983

Member, IEEE Awards Committee, 1992-1994

Member, National Medal of Technology Award Committee, 1996-1998

Co-chair, National Academy of Engineering Action Forum on Engineering Workforce Diversity, 1999-2000

Member, National Academy of Engineering Public Awareness of Engineering Committee, 2002

### Councillor, National Academy of Engineering, 2003-2009

Member, President’s Council of Advisors on Science and Technology (PCAST), 2006-2008

Member, IEEE Founder’s Award Committee, 2006-2009

Member, Advisory Board of the Applied Physics Laboratory of the

University of Washington, 2007-2011

Member, Center for the Study of the Presidency Study Group on Presidential Science and Technology Advisory Assets, 2008

Member, NRC Committee on Underrepresented Groups and the Expansion of the Science and Engineering Workforce Pipeline, 2008-2010

Member, Search Committee for NSF Assistant Director of Engineering, 2013

**Board Membership**

 Collegiate Housing Foundation

**Previous Corporate Board Memberships**

Commercial Credit Corporation

Baltimore Gas and Electric Company

Martin Marietta Corporation

Sovran Bank of Maryland

### Medical Mutual Insurance Company

### Union Bank of California

### Monsanto Company

### Atlantic Richfield Corporation (ARCO)

Avery Dennison Corporation

## International Business Machines (IBM)

Northrop Grumman Corporation

Solutia, Inc.

## Civic Activities

### Member, Board of Advisors, Council for the Advancement of Education, 2001-2003

### Member, Century Foundation Task Force on the Common School, 2001-2002

Member, Board of Directors of the National Center for Public Policy and Higher Education, 1999-2003

Member, Search Committee for the Superintendent of the Los Angeles Unified School District, 2000

Co-chair, California Citizens Commission on Higher Education, 1997-1999

Member of the Board of Governors of the Los Angeles Annenberg Metropolitan Project (LAAMP), 1995-2002

Member, Independent Commission on the Los Angeles Police Department (Christopher Commission), 1991

Member, Board of Governors of Town Hall of California, 1990-1994

Chair, Diversity Committee, Music Center of Los Angeles County, 1989-1993

Member, Board of Directors, Los Angeles World Affairs Council, 1989-1995

Member, Business-Higher Education Forum, 1989-1991

Member, Presidents’ Commission, National Collegiate Athletics Association, 1984-1988 (Chair, 1986-1988)

Life Member, NAACP, 1985-date

Member, Board of Directors, Maryland State Chamber of Commerce, 1983-1988

Member, Board of Directors, Prince George’s County Chamber of Commerce, 1984-1988

Member, Board of Directors, Prince George’s County Economic Development Corporation, 1984-1988

Chair, Prince George’s County Public Schools Advisory Council on Magnet and Compensatory Education, 1985-1986

Chair, Governor’s Task Force on Teen Pregnancy, Maryland, 1984-1985

Member, Citizens’ Transit Advisory Committee of Metropolitan Seattle, 1976

Member, Board of Directors of the San Diego County Chapter of the American Cancer Society, 1974-1975

Member, Board of Directors, San Diego Transit Corporation, 1968-1975

(Vice Chairman, 1972-1975)

Chairman, San Diego-Area Navy Equal Employment Opportunity Council, 1967-1968

Member, Board of Directors, San Diego Urban League, 1962-1973

(President, 1964-1966)

Founding President, Zeta Sigma Lambda Chapter of Alpha Phi Alpha Fraternity, Inc., 1957-1960

**Books**

*The Rules of the Game: Ethics in College Sports,* Richard E. Lapchick and John B. Slaughter, co-editors, American Council on Education and Macmillan Publishing Company, New York, 1989

*Changing the Face of Engineering: The African American Experience,* John Brooks Slaughter, Yu Tao, Willie Pearson, Jr., co-editors, Johns Hopkins University Press, in press

## Professional Publications

“ The National Science Foundation,” An entry in *Encyclopedia of Education Economics and Finance,* Brewer and Picus, eds., 2013

“Thoughts on Educational Leadership,” A chapter in *Urban Education*, Gallagher, Goodyear, Brewer and Rueda, eds., 2011

“Science, Jobs and Elections as November Elections Approach,” *Huffington Post*, October 4, 2010

“African American Males in Engineering: Past, Present and a Future of Opportunity”; A chapter in *Black American Males in Higher Education: Research, Programs and Academe*, Frierson and Pearson, eds., Vol. 7, 2010

“New Demands in Engineering, Science and Technology,” co-authored with Irving Pressley McPhail, *The Black Collegian*, 2007

“After Michigan, What?: Next Steps for Affirmative Action,” Educational Policy Institute, February 2007

## “Words Twisted to Turn Voters Against Affirmative Action,” *San Jose Mercury News*, March 4, 2007

“Changes Nip at Minority Scholarships,” *Chicago Sun-Tim*es, April 27, 2006

## “Diversity Gives Competitive Edge to U.S. Innovation,” *San Jose Mercury News,* March 24, 2006

A book review of *Funding Science in America: Congress, Universities and the Politics of the Academic Pork Barrel* by James D. Savage, Cambridge University Press, 1999

A contribution to the book *Engineering Tomorrow: Today’s Technology Experts Envision the Next Century,* Janie Fouke, ed., IEEE Press, 1999

“Focus On The Presidency Series,” *Trusteeship,* Association of Governing Boards, Volume 2, Nos. 1-6, 1994

“Should Education Be A Boardroom Subject?,” *Directorship,* Vol. XVI, No. 10, Oct. 1991

A response to *The Challenge of Academic Advising for African-American Collegiate Athletes on the Traditionally White Campus: Historical Evolution, Contemporary Status, Prospects and Proposals* by Harry Edwards in the Journal of the National Academic Advising Association (NACADA), Vol. 11, No. 2, Fall 1991

A book review of *Blacks, Science and American Education*, edited by Willie Pearson, Jr. and H. Kenneth Bechtel, Rutgers University Press, 1989, in Planning for Higher Education, Vol. 19, Spring 1991

“The Liberal Arts College and the Challenge of Teacher Education,” *A View From the Top: Liberal Arts Presidents on Teacher Education*, Thomas Warren, ed., Association of Independent Liberal Arts Colleges for Teacher Education and University Press of America, 1990

 “Bigotry Is Back In Fashion: Many Forms of Racism Infest Nation’s Campuses,” *Los Angeles Times*, October 7, 1989

“American Science—A Disturbing Fragility,” *Transactions of the Kansas Academy of Science,* Vol. 91(3-4), 1989

“After a Steady Diet of the Big Time, Small-College Football Has Its Rewards,” *Chronicle of Higher Education,* January 4, 1989

“For Colleges, the Test Now Is Equality,” *Los Angeles Times*, October 6, 1988

“The Role of Universities in Conducting Educational Research,” *Higher Education Research and Public Policy*, Manuel Justiz and Lars Bjork, eds., ACE/Macmillan Series on Higher Education (co-authored with Ida B. Slaughter), 1988

“A Case for Evaluating the Nature of Scientific and Technological Advice to the Federal Government,” *Science Advice to the President,* William Golden, ed., 1987

“The Enduring Legacy of Early Black Scientists and Engineers,” *The Black Collegian,* Vol. 14, No. 3, January/February, 1984

“Interdisciplinary Science Education for the Future,” *Interdisciplinary Science Reviews,* Vol. 8, No. 2, 1983

“The National Science Foundation Looks to the Future,” *Science,* Vol.211, March 13, 1981

“A Relevant Look at the Environmental Sciences,” *The Black Collegian*, March/April, 1979

“Interactive Displays for Tactical Command Control,” *Computers and Electrical Engineering,* Vol. 3, No. 3, September, 1976

“Understanding the Software Problem,” *Proceedings of the 1974 National Computer Conference,* Vol. 43, May, 1974

“The Application of Separable Programming to Optimal Control Problems with Quadratic Cost and Convex Constraints,” *Proceedings of the Fourth Hawaii International Conference on Systems Sciences,* January, 1971

“Quantization Errors in Digital Control,” *IEEE Professional Technical Group on Automatic Control,* January, 1964

“Twin-T Compensation Using Root Locus Methods,” co-author with A. B. Rosenstein, *IEEE Transactions,* Pt. II, January, 1963

## Major Addresses

“Science and Technology: A Future for All Americans,” The Aerospace Corporation, Los Angeles, CA, February 22, 2011

“Standing Our Ground: “The Case for Change in College Admissions,” USC Center for Enrollment Management and the Education Conservancy, Los Angeles, CA, January 28, 2011

 “Answering Mr. Opportunity: A Call to Action,” Washington University in St. Louis, St. Louis, MO, November 5, 2010

 “On Stemming the Tide and Calming the Tempest,” NAE Grand Challenges Summit, University of Southern California, Los Angeles, CA, October 8, 2010

“The “New” American Dilemma: A Nation Becoming Increasingly Dependent on Scientific and Technological Capacity While Too Few of Its Youth Are Preparing for and Choosing to Pursue STEM Careers,”Ming Hsieh Department of Electrical Engineering,University of Southern California, Los Angeles, CA,February 18, 2010

“Diversity and Equity in Graduate Education: A New Paradigm for Institutional Excellence,” Council of Graduate Schools, Washington, DC, April 23, 2009

“The ‘New’ American Dilemma, National Academy Foundation 2007 Leadership Summit, Newport Beach, CA, November 1, 2007

“Leveling the Playing Field: Improving Access to a College Education,” The Educational Policy Institute Retention 2007 Conference, San Antonio, TX, May 24, 2007

“Creating a Faculty of Equity and Excellence: Recruiting, Retaining and Advancing Faculty of Color,” University of Minnesota Keeping Our Faculties IV National Symposium, Minneapolis, MN, April 13, 2007

“Engineers for Tomorrow: An Imperative for America.” Eyestone Distinguished Lecture Series, College of Engineering, Kansas State University, Manhattan, KS, April 27, 2006

“A New Era for Corporate Governance,” Society for Corporate Secretaries and Governance Professionals, Los Angeles, CA, June 25, 2005

“Opening the Pathways: Challenges and Opportunities,” 2005 NAMEPA/WEPAN Conference, Las Vegas, NV, April 10, 2005

“Revisiting the Dream,” 2004 Martin Luther King, Jr. Holiday Address, Los Alamos National Laboratory, January 15, 2004

 “Diversity and Equity in Higher Education: A New Paradigm for Institutional Excellence,” National Association of State Universities and Land-Grant Colleges, Washington, DC, June 23, 2003

“The Search for Excellence and Equity in Higher Education: A Perspective from an Engineer,” The George W. Woodruff School of Mechanical Engineering Annual Lecture, Georgia Institute of Technology, Atlanta, GA, April 10, 2003

### “Engineering Education for the 21st Century,” The American Society for

### Engineering Education, 2002 ASEE Annual Conference and Exposition, Montreal, Canada, June 17, 2002

“The 1999 Brown Lecture on Diversity,” Washburn University, Topeka, KS, October 3, 1999

“Student Athletes, Political Correctness and Other Oxymorons,” The Walter F. Sutton Lecture Series, International Center for Ethics in Business, University of Kansas, Kansas City, KS, September 14, 1999

“African American Leadership and the Information Revolution,” African American Leadership Institute, The Anderson School of Business, UCLA, March 17, 1998

“Let the Drum Major Keep Marching On,” 20th Annual Martin Luther King, Jr. Birthday Dinner Celebration, King Week Festival ’97, Los Angeles, CA, January 15, 1997

“A Challenge to the International Control Systems Community,” 13th World Congress, International Federation of Automatic Control (IFAC), San Francisco, CA, June 30, 1996

“Leadership, Learning and Change,” 1996 Presidential Perspective Address, The American Council on Education, 78th Annual Meeting, San Diego, CA, February 18, 1996

“An Engineer in the Midst of Science and Technology Policy-Making,” School of Engineering and Applied Science, Southern Methodist University, Dallas, TX, November 10, 1995

“Science, Technology and Social Responsibility,” College of Engineering, San Diego State University, San Diego, CA, May 29, 1994

“The Challenge for Nevada: Creating a Strong Public University for the 21st Century,” First Interstate Bank Distinguished Leadership Address, Carson City, NV, February 2, 1993

“Ethics and Athletics: An Oxymoron?,” Gould Center for Humanistic Studies, Claremont McKenna College, Claremont, CA, November 4, 1992

“The University in 21st Century America,” The 1991 Earl V. Pullias Lecture in Higher Education, University of Southern California, Los Angeles, CA, March 9, 1991

“Foundation for Liberal Arts Education in the 21st Century,” The New Liberal Arts Program, Alfred P. Sloan Foundation, Los Angeles, CA, January 11, 1991

“A Call for Excellence in Education,” Roy Wilkins Scholarship Luncheon, NAACP National Meeting, Los Angeles, CA, July 11, 1990

“Science, Technology and Social Consciousness,” California Institute of Technology, Pasadena, CA, June 2, 1990

“Faith, Science and Technology,” Presbyterian General Assembly, Salt Lake City, UT, May 31, 1990

“Putting Integrity Back into Intercollegiate Athletics,” Crichton Club, Columbus, OH, February 27, 1990

“The Search for Pluralism in Higher Education,” The 8th Annual Naumberg Memorial Lecture, UCLA, Los Angeles, CA, April 18, 1989

“A Case for Celebrating Diversity in Higher Education,” Fall Convocation, Kansas State University, Manhattan, KS, August 25, 1988

“Dealing with ‘Big-Time’ Intercollegiate Athletics Programs,” Association of Governing Boards of Colleges and Universities National Conference on Trusteeship, New Orleans, LA, March 23, 1987

“Innovation and Tradition in Higher Education,” David Dodds Henry Lecture, University of Illinois, Chicago, IL, October 17, 1985

“Centennials: Making the Connections,” 1985 Croft Lecture, University of Missouri, Columbia, MO, February 19, 1985

“The Civil Rights Act: Two Decades Later,” National Academy of Sciences, Washington, DC, June 28, 1984

“Science and Education, Hopes for Mankind,” Percy L. Julian Memorial Lecture Series, DePauw University, Greencastle, IN, April 11, 1983

“Science, Education and Politics: An Uncertain Trinity,” Louis Clark Vanuxem Lecture, Princeton University, Princeton, NJ, February 1, 1983