



STATE REGULATION OF PUBLIC UTILITIES REVIEW COMMITTEE

CANDIDATES FOR THE SOUTH CAROLINA PUBLIC SERVICE COMMISSION EDITED PERSONAL DATA QUESTIONNAIRE

NOTICE: The information requested herein is needed to assist the Committee in its investigation of candidates for the Public Service Commission. This questionnaire is the initial step in the investigation of your candidacy. A completed questionnaire should be returned to the Committee as soon as possible, but in any event no later than noon, 12:00 p.m., on Friday, October 11, 2019. *(Use and attach separate sheets, if necessary.)*

PLEASE SPECIFY THE SEAT FOR WHICH YOU ARE APPLYING (THE CONGRESSIONAL DISTRICT IN WHICH YOU RESIDE; YOU MAY ONLY APPLY FOR ONE SEAT): Seat 1 (District 1)

1. Full Name: Mr. Lawrence Daniel Sullivan

Home Address: 2314 Hummingbird Lane, Summerville, SC 29483

Business Address: The Citadel, Room 427, Capers Hall, Charleston, SC 29409

6. List each institution of higher learning you attended, including dates of attendance and degrees awarded. Please provide an official transcript prior to your screening hearing. If you left any institution without receiving a degree, state the reason for leaving.

I attended the University of Southwest Louisiana in Lafayette, LA (1968 to 1969). I attended Eastfield College in Dallas, TX (1970 to 1971). I attended the University of Texas at Austin and earned a B.A. in Geography in 1973. I attended Louisiana State University, School of Law, Baton Rouge, LA (1973 to 1974). I attended Arizona State University in Tempe from 1975 to 1977 and I earned an M.A. in Geography in 1977. I attended Texas A&M University (1977 to 1978) in Regional Planning. Texas A&M sent me to the Texas Department of Water Resources for an internship to write the US Environmental Protection Agency (EPA) Resource Conservation and Recovery (RCRA) Texas Implementation Plan in 1978 to 1979. I left Texas A&M University and the Texas Department of Water Resources to join the oil and gas industry in 1980 after completing the Ph.D. course work and the Texas RCRA Implementation Planning assignments.

I attended the London School of Economics from 1985 to 1987, taking courses in Strategic and Regional Planning as a part-time student. My oil company employers paid for the advanced education. I attended the College of Petroleum Studies at Oxford University (1990) and Warwick University, School of Business (1991 to 1992). These were non-degree company sponsored executive training.

In 1987, Imperial Chemical Industries (ICI) sponsored my advanced Strategic Planning (STRAT*X) program developed by INSEAD (*Institut Européen d'Administration des*

Affaires) It is French for "European Institute of Business Administration." This was a course for advanced strategy and planning for senior managers.

7. List any continuing education courses or other professional education or training programs that you have attended in the past five years.

Upon becoming an Adjunct Professor at Trident Technical College (TTC) and The Citadel, I have taken non-credit courses on Coursera related to economics, utility industries, energy industries and regional economic geography.

8. Have you been employed or held any position in any of the following areas?

- (a) energy issues: My career is within the energy industry from 1980 to Present.
- (b) telecommunications issues: No.
- (c) consumer protection and advocacy issues: I was elected to the South Carolina Consumer Affairs Commission in 2019 by the General Assembly.
- (d) water and wastewater issues: My career in the energy industry exposed me to many issues related to water and wastewater regulations (EPA Clean Water Act, EPA Clean Air Act, and the EPA RCRA).
- (e) finance, economics, and statistics: I worked often with hedge funds, private equity funds and related institutions to secure finance for projects and provide due diligence for investors in projects. Economics and statistics feature in the content of the courses that I teach.
- (f) accounting: No.
- (g) engineering: I am a member of the Society of Petroleum Engineers (SPE) and of the American Institute of Chemical Engineers (AIChE). I am a Senior Member in both. I was trained at the Texas Department of Water Resources and later by my employers in petroleum engineering, refinery and petrochemical engineering, power generation (Combined Heat and Power or CHP) engineering and related engineering.
- (h) law: I attended Louisiana State University (LSU), School of Law and worked in energy issues outside the United States, so I was able to draw on Civil Code training that I received at LSU.

Please provide the duration of your employment or service and details about the nature of the work or the position:

- In 1980, I joined the oil and gas industry. I was trained in petroleum engineering by Dresser Industries, Inc., and I worked as an engineer for Dresser in Libya, Italy, United States, Canada, Norway, the Netherlands, the United Kingdom (UK), Egypt, and France. In 1983, I was promoted to Senior Engineer.
- In 1985, I joined the British chemical and oil company Imperial Chemical Industries (ICI) to manage the chemicals used for oil and gas processing. I was trained in supervision, management, capital asset planning, chemical engineering, petrochemical engineering and other programs typical for managers. My title was Business Unit Manager.

- In 1990, I joined the United States chemical company Dupont and worked for the UK oil and gas refining company Conoco in addition to parent company Dupont in the US. Like ICI, Conoco UK provided training for my roles as Product Manager, Strategy Manager and related roles. I lost my superior when Dupont's corporate jet crashed, and four of 11 Senior Vice Presidents of Conoco died with their spouses.
- In 1994, I returned to the United States and my wife's career in cancer research took the front stage, and I worked for small companies in Minnesota. These companies (Chemstar, Osmonics, Cortec, Crown Iron, and others) sought my skills in helping them develop products, strategies, and, sales of new technologies to the oil and gas industry. Oil and gas companies tend to be inward focused and, as a result, the development of new technologies comes from companies outside of petroleum. For example, the epoxy coating for pipelines was developed by Minnesota-based 3M Corporation. As I knew the petroleum industry well, I was able to succeed with developing new technologies for oil and gas engineering like membrane filtration, corrosion control, low impact chemicals, biofuels, and novel engineering solutions.

Oil and gas remains an extremely capital-intensive industry and, therefore, very slow, like aviation and power generation, to adopt new technologies. For obvious reasons, the new technologies require extensive testing and evaluations before use. And oil and gas, like power generation, does prefer to amortize investments before adaptation of new investments. I am a leader in the development of biofuels commonly used by petroleum companies to meet state and federal mandates under the US EPA Renewable Fuel Standard (RFS).

9. Have you served in the military? If so, give the dates of service, branch of service, highest rank, serial number, present status, and the character of your discharge or release. Please provide a copy of your DD-214 prior to your screening hearing.

I have not served in the military.

10. Have you ever held public office? If so, provide details, including the office, whether elected or appointed, the length and dates of your service. Also, state whether or not you timely filed reports with the State Ethics Commission during the period you held public office. If not, were you ever subject to a penalty? If so, provide details, including dates.

In May 2019, the South Carolina General Assembly voted me to a four-year term on the South Carolina Consumer Affairs Commission. I filed timely reports with the South Carolina State Ethic Commission in 2019.

11. Have you ever been an unsuccessful candidate for elective, judicial, or other public office? If so, provide details, including dates.

None.

12. Please list in chronological order any employment of you by any governmental agency (whether full time or part time, contractual or at will, consulting or otherwise). Provide dates of employment, name of employer, name of supervisor, and major job responsibilities.
- I worked for the University of Texas in Austin as a Work Study student (1972 and 1973). I worked for Texas A&M university as a Graduate Research and Graduate Teaching Assistant (1977 to 1978). As part of my program, I worked for the Texas Department of Water Resources (1978 to 1979) where I led a team of scientists, academics, and others to write the RCRA State Implementation Plan.
 - I am now an Adjunct Professor at Trident Technical College (TTC) and The Citadel. I joined TTC in August 2103 and am currently conducting classes in World Regional Geography. My superior is Dr. Elaine Mawhinney, Department Chair, Behavioral and Social Sciences; and, Dr. Roland Kuykendall, Ronald A. Kuykendall, Coordinator/Instructor.
 - My superior at The Citadel is Dr. Joelle Neulander, History Department Head. I joined The Citadel in January 2015. I teach World Regional Geography to cadets and graduate students. I conduct research on economic geography topics.
13. Please list in chronological order any occupation, business, or profession in which you have been engaged or employed (other than serving in a public office or being employed by a governmental agency). Please briefly note the nature of your work during each period.

Original Answer:

- **While in graduate school at Arizona State university in Tempe, I taught high school at Judson School in Scottsdale from 1975 to 1977.**
- **I worked as a field engineer (petroleum engineer) for Dresser Industries, Inc., based then in Houston, Texas. I was assigned to the International Division based in Houston, TX. I was assigned to Dresser Europe, S.A. (London, England) and worked in Libya, Malta, Italy, The Netherlands, France, Egypt, Norway and the USA.**
- **In 1985, I was recruited to join the UK based chemical and oil company, Imperial Chemical Industries, plc (ICI) as a Product Manager, with a focus on new chemicals used in oil and gas production. I worked in Europe, the Middle East, Africa and the USA.**
- **I worked for Dupont's Conoco unit in the UK in refinery and chemicals strategic planning as well as general management from 1990 to 1994.**
- **In 1994, I returned to the US and worked for small companies that developed new technologies for oil and gas operations. These were based in Minnesota and were Chemstar, GE Osmonics (now Suez Water), Dover RPA, Cortec, Crown Iron Works and others. My wife and I created a S Corporation,**

Lawrence D. Sullivan & Company, Inc. in 1998 to consult for companies where we did have an employment relationship.

- In 2002, with Crown Iron Works, I started working with biofuels as a technology for oil and gas companies. I worked for Kansas based ICM and later, in Virginia, with Delta-T to design and build biofuel plants. In 2007, I joined the public traded Kreido Biofuels as the Chief Technology Officer, and, with the market collapse in 2009, helped to sell the assets. In 2009, I joined PetroAlgae to develop markets for biomass power generation and in 2011, I joined a unit of MeadWestvaco (MWV) called ArborGen to develop biomass power generation markets.

Amended Answer (12/14/19):

In regards employment dates since 2011, I note as follows: I was recruited to join ArborGen in Summerville, SC in December 2010. I joined the company in February 2011 and left in June 2012 after the IPO failed. All my superiors left the company in early 2012. ArborGen was owned by MeadWestvaco (MWV), International Paper (IP) and Rubicon (RBC). I reverted to my consulting in oil & gas, energy, biofuels until MWV hired me in April 2013 as part of the merger with RockTenn to form what is today WestRock. In August 2013, I joined Trident Technical College (TTC) in the role of an Adjunct faculty member and in January 2015 I joined The Citadel as an Adjunct faculty member. I remain today as a W-2 employee of both institutions.

Amended Answer to Clarify Responses to #8 and #13:

Regarding the countries where I worked (and/or traveled), they are: Mexico, Japan, Singapore, UK, Libya, Malta, Italy, Holland, France, Belgium, Portugal, Egypt, Norway, Denmark, Germany, UAE, Saudi Arabia, Kuwait, Switzerland, Australia, Canada, Ireland, Czech Republic, Gabon, Colombia, Venezuela, Brazil and India as well as Sri Lanka. This amends other statements in the PDQ.

14. Are you now an officer or director or involved in the management of any business enterprise? Explain.

My wife and I own a Minnesota S Corporation, named "Lawrence D. Sullivan & Company, Inc.," where we consult and advise as subject matter experts (Biomass, Biofuels, Biomass Power, etc.). I serve as an Adjunct Professor (noted) and was appointed by the US Department of Energy (DOE) and the USDA to the Biomass Technical Advisory Committee and the US EPA as a Science Advisory Board member in 2018 and 2019. Both appointments are governed by the Federal Advisory Committee Act (FACA) (Pub. L. 92-463, 86 Stat. 770, enacted October 6, 1972). It is a United States federal law which governs the behavior of federal advisory committees.

15. Describe any financial arrangements or business relationships that you currently have or have had in the past that could pose a conflict of interest in the position you seek. Explain how you would resolve any potential conflict of interest.

I have no Conflicts of Interest.

20. Have you ever been a named party in a lawsuit, either personally or professionally? If so, provide details.

In 1998, a former employer (Chemstar Products) brought an action against me for a purported violation of a Non-Compete Agreement. When I joined the company in 1994, my Non-Compete Agreement did not specify the names of the companies that were competitors, so the court ordered Chemstar to list the names. The case was resolved in my favor as I was permitted to work with a division of Cargill.

22. Are you now or have you ever been employed as a "lobbyist," as defined by S.C. Code Section 2-17-10(13), or have you acted in the capacity of a "lobbyist's principal," as defined by S.C. Code Section 2-17-10(14)? If so, please provide the dates of your employment or activity in such capacity and specify by whom you were directed or employed.

No.

23. Since your decision to seek a position on the Public Service Commission, have you accepted lodging, transportation, entertainment, food, meals, beverages, money, or any other thing of value, as defined by S.C. Code Section 2-17-10(1), from a lobbyist or lobbyist's principal? If so, please specify the item(s) received, date of receipt, and the lobbyist or lobbyist's principal providing the item(s).

No.

26. Other than expenditures for travel or room and board, please itemize all expenditures (by amount, type, and date) by you, or on your behalf, in seeking the office of Public Service Commissioner.

I am paying the colleges for transcripts and copy services for documents.

27. Please list the amount and recipient of all contributions made to members of the General Assembly within six months of filing this questionnaire.

None.

28. Have you directly or indirectly requested a pledge of any member of the General Assembly as to your election for the position for which you are being screened? Have you received the assurance of any public official or public employee that they will seek the pledge of any member of the General Assembly as to your election for the position for which you are being screened?

No.

29. Have you or has anyone on your behalf solicited or collected funds to aid in the promotion of your candidacy for the position of Public Service Commissioner? If so,

please specify the amount, solicitor (if applicable), donor, and date of solicitation and/or receipt.

No.

30. List all professional organizations of which you are a member and give the titles and dates of any offices that you have held in such groups.

- Society of Petroleum Engineers (SPE), Senior Member (1982 to Present)
- American Association of Geographers, Retired Member
- American Institute of Chemical Engineers (AIChE), Senior Member
- ASTM International, Committee D02 (Petroleum), Committee E48 (Bioenergy and Industrial Chemicals from Biomass), and Committee E62 (Industrial Biotechnology).

I serve as an academic category voting member of these ASTM Committees.

31. List all civic, charitable, religious, educational, social, and fraternal organizations of which you are or have been a member during the past five (5) years.

- St. Paul's Anglican Church, Summerville, South Carolina
- American Foundation for Suicide Prevention, South Carolina Chapter, Annual Walk co-chair with my wife in 2015.

32. State any other information which may reflect positively or negatively on you, or which you believe should be disclosed in connection with consideration of you for a position on the Public Service Commission.

I am an academic and I have published papers regarding the energy industry. My leadership in the petroleum and biotechnology fields is well recognized. Also, as an Adjunct Professor, I published a review of the SC E&G and Santee Cooper situation in FITSNEWS.

33. List the names, addresses, and telephone numbers of five (5) persons, including your banker, from whom references could be required. Also, provide this Committee with original letters of recommendation from each person listed herein, including their signature. A photocopy, facsimile, or electronic submission of a letter of recommendation will not be accepted.

- 1) Mr. Michael Fatigati
- 2) Professor Roland Kuykendall
- 3) Professor Joelle Neulander

4) Father Tripp

5) Banker Letter

YOUR SIGNATURE WILL BE HELD TO CONSTITUTE A WAIVER OF THE CONFIDENTIALITY OF ANY PROCEEDING BEFORE A GRIEVANCE COMMITTEE OR ANY RECORD INFORMATION CONCERNING YOUR CREDIT.

I HEREBY CERTIFY THAT THE ANSWERS TO THE ABOVE QUESTIONS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Signature: _____

Date: October 2, 2019

PLEASE NOTE: S.C. CODE SECTIONS REFERRED TO IN THIS DOCUMENT ARE CONTAINED IN THE PDQ CODE REFERENCES DOCUMENT.

I ACKNOWLEDGE, AS A CANDIDATE, THAT I AM RESPONSIBLE FOR REVIEWING THE FOLLOWING DOCUMENTS. THESE DOCUMENTS ARE PROVIDED ON THE USB FLASH DRIVE WITH THE PUBLIC SERVICE COMMISSION APPLICATION MATERIALS AND ARE ACCESSIBLE ON THE PUBLIC UTILITY REVIEW COMMITTEE'S WEBSITE:

- (1) An Introduction to the Public Service Commission;**
- (2) The press release issued by the Committee announcing the start of its application process;**
- (3) An Advisory Opinion relating to attendance by candidates for the Public Service Commission at legislative receptions;**
- (4) An Advisory Opinion relating to attendance by candidates for the Public Service Commission at legislative caucus meetings;**
- (5) The Judicial Code of Conduct;**
- (6) Statutory definitions and statute concerning pledges; and,**

(7) Information regarding accessing your credit report.

Signature:

Date: October 2, 2019