

August 30, 2014

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Subject: Position for the Associate Dean of College of Engineering at San Diego State University

Dear Search Committee Members:

I am writing to express my interest in applying for the position of the Associate Dean of the College of Engineering at San Diego State University. I am currently the Associate Dean for Research and Graduate Studies of the College of Engineering and Technology at Old Dominion University. Prior to this appointment, I was the Chair of the Department of Electrical and Computer Engineering at Old Dominion University. I have a unique set of experience having been a faculty for over 20 years, a chair for over 8 years and currently I am the associate dean for research and graduate studies. I have the necessary experience, vision, drive, and leadership skills to advance the vision of the college. I will build on the excellent tradition of the college and create a scholarly community dedicated to excellence through student-centric education, research, and outreach.

I started as the Associate Dean in Fall 2013 and my responsibility areas include research, graduate education and faculty development. I am responsible for overseeing the graduate programs in the department. These duties include developing new programs, offering distance and on-line courses, acting as a liaison to the Academic Affairs for all matters related to graduate education, and develop policies. As an associate dean I also allocate to the departments graduate assistant stipend and tuition waivers.

As an associate dean, I assist the College Dean with faculty evaluation which includes annual and tenure/promotion. I am also responsible for faculty development. The responsibilities include disbursing funds for faculty development and organizing research and teaching workshops: We have one of each every semester.

One of my charges as an Associate Dean is to develop and implement a strategic plan to double our research expenditure in the next 5 years. I am building a research administration team to assist the college with its research agenda and last year we hired a director for research and development and a grants writer. We are developing a long term plan to identify and invest in strategic areas: Since we are surrounded by naval facilities, in the near term our team has concentrated on establishing relationship with regional naval organizations. As an example we just signed an MOU and NDA with Naval Surface Weapons Center (NSWC) Dahlgren Division, and now we are putting in place indefinite delivery/indefinite quantity (IDIQ) and Cooperative Research and Development Agreement (CRADA) in areas of technical competence. This will lead to significant research opportunities for our faculty. Also as another example we are now the only institution in Virginia with strength in solar energy and we are lobbying the state and our local utility (Dominion Virginia Power) for funds to form a center of excellence. As a team we

also identify opportunities well ahead of time so that we are not reacting to RFPs and BAAs. Working with the college dean, we are also looking at policies to improve participation by faculty in funded research.

I was also the chair of the Department of Electrical and Computer Engineering at ODU from January 2006 to December 1, 2013. The department chair's job perhaps is the most satisfying and at the same time, the most challenging. I have been very fortunate to work with a very competent faculty at Old Dominion University dedicated to both teaching and research. In this capacity as the chair for over seven years, I have managed the department personnel (under my tenure as the chair we hired 14 faculty members and 1 staff) and the budget (about 3 million), administered the academic programs (BS in electrical engineering and computer engineering, ME, MS, and PhD in Electrical and Computer Engineering), and presided over a growing research enterprise (research expenditure ranges from 3.5-5 million dollars per year, and about 3.5 journals per faculty per year). Every year I have evaluated over twenty faculty and written over fifteen promotion and tenure recommendations with a few difficult decisions of denying tenure.

As a chair, I have continued the tradition of providing quality education to a diverse population. Being in an urban area with large military facilities, we are particularly sensitive to the needs of non-traditional students and provide evening and distance learning courses. I have been involved with all aspects of graduate and undergraduate academic programs. With help from our faculty, I was intimately involved in the recent general education revision and created the course on Information Literacy and Research which I taught for two years. Although truly a collective effort, I have authored two (electrical and computer) self-study reports for ABET accreditation and a self-study report for our graduate program review. The key to our success was substantial involvement of the faculty in assessment process and their willingness to improve curriculum where needed. Assessment is a group effort which requires a balance between quantity and quality.

I have also had considerable success in building the research infrastructure of the department when I was the chair. The department now has a state-of-the-art materials research laboratory with a brand new TEM and cleanroom facility for photovoltaic research. Also under my guidance, we have built an excellent facility to perform cutting edge research in machine vision and computational intelligence. This was a result of forming groups with the right type of people who can work together. I was a co-PI on a planning grant for a NSF I/UCRC center on wind energy. Although we were unable to form a center, it was a valuable experience for me as we went through several stages of planning with five universities and multiple companies. I am very supportive of collaborative effort and I believe it is a key ingredient to attract competitive funding and I found that the university officials are willing to invest in collaborative groups with a well thought out plan that clearly shows the return on investment.

My primary area of research is on non-thermal plasmas both modeling and experimental. My major research contribution has been on the modeling of the streamer mechanism of the electrical breakdown of gases and the use of non-thermal plasmas for pollution control and surface modification. At ODU, I have focused mainly on renewable energy including wind and solar. My research in the renewable energy area has been mostly system design and development

work with industrial funding. My research work is documented in 29 peer reviewed journal publications in highly rated journals including IEEE transactions, JAP and APL and I also have over 50 conference proceedings. I have graduated three PhD and thirty three MS students.

After joining ODU, I have obtained several grants both as a PI and co-PI with my colleagues. We were recently awarded a NSF-DUE S-STEM for solar energy education. I was a co-PI on two and a PI on the latest educational grant from Dominion Education Foundation. I am also a PI on another educational grant supported by the University of Minnesota/DoE to revitalize power engineering education. These grants allowed us to establish a state-of-the-art lab for electric energy and photovoltaic (PV) education. I am currently a PI and a co-PI on two grants from the Commonwealth's Center for Innovative Technology (CIT). These grants are for commercialization and product development based on our research on PV. I am also a co-PI on a \$500,000 grant from Dominion Resources to develop a test facility for photovoltaic systems and a \$200,000 equipment grant from Trabant Solar. Funding from these two sources has allowed us to establish a research program in the electric energy systems area which complements the material and devices research effort by other colleagues in the department. This team effort has made us more competitive and we plan on establishing a center of excellence in PV.

Due to budgetary pressure, most successful universities are relying on diverse sources of revenues: Besides grants and contracts, private donations are an important source of money. I have made a concerted effort in building a good relationship with our Industrial Advisory Board (IAB). Twice (in 2011 and 2013) we were successful in getting \$40,000 each time from Dominion Education Foundation, the philanthropic division of our local utility. This required the framing of a narrative based on student learning needs and working our IAB contacts. I have also established contacts with local industry and have been successful in getting equipment donations such as solar energy equipment for teaching and research. When I was the department chair, I was often the liaison between the alumni and our development officers. I have worked hard to engage our students outside of academics so that they have a positive experience at ODU which makes them potential donors. .

My approach to administration has always been to study an issue carefully and build consensus by getting the faculty involved in discussions. My guiding principle has always been the mission of the university, college and the department. I found that if I consistently apply this litmus test, I rarely have to force an issue. Critical to all decision making is fairness and consistency, and not making the mistake of setting a bad precedence. This applies particularly to faculty evaluation, and tenure and promotion decisions. I believe in rewarding merit and productivity that elevates the department and helps us to fulfill our mission. When I was the chair, I have always taken a hands-off approach: I tend not to micromanage, but will hold the faculty accountable. This style has worked well at ODU and we have a very productive and collegial department: the average ECE research expenditure is about \$200,000 per faculty per year and average journal publication is 3.5 per faculty per year.

My goals for the college of engineering at SDSU as the associate dean are very simple but challenging: Recruit good students, increase research funding and scholarly activities, and increase the college endowment. Attracting the best students and faculty would need more

scholarships and fellowships, and endowed chair positions. Since SDSU is an urban university, I would be interested in creating graduate academic programs to better serve the community and build a strong relationship with industry.

Maintaining a high productivity in research is perhaps the best way to counter any threats which can impact resources. Just like teaching, this starts with hiring the right faculty in a strategic area of research which complements the ongoing research in the college and leads to strong collaborations. Particularly important for sustained research productivity is the hiring of young faculty from top universities. The challenge is to find the resources for competitive salaries and start-ups. As a chair for seven years, I hired 14 new faculty members and changed the whole research environment of the department. A critical function of the associate dean would be to create an environment that promotes research and creative activities. Therefore it is critical to have a reward system that encourages external funding activities and scholarly work. This requires a fair performance evaluation process with faculty buy-in.

I look forward to the opportunity to meet with you and your colleagues to discuss how I will work to realize the college's vision and help achieve its goals.

Sincerely,

A handwritten signature in black ink, appearing to read 'Shirshak K. Dhali', written in a cursive style.

Shirshak K. Dhali, PhD, PE
Professor of Electrical and Computer Engineering
Associate Dean for Research and Graduate Studies
College of Engineering and Technology
Old Dominion University, Norfolk, VA 23529

Shirshak K. Dhali

References

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Curriculum Vita
Shirshak K. Dhali
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Education:

- Ph.D. Electrical Engineering, Texas Tech University, Lubbock, Texas, May 1984.
M.S. Electrical Engineering, Texas Tech University, Lubbock, Texas, May 1981.
B. Tech. Electronics and Electrical Communication, Indian Institute of Technology, Kharagpur, India, May 1978.
P.E. State of Illinois, 1992. (Registration# 62047713)

Professional Experience:

- 8/25/13- current: Professor and Associate Dean for Research and Graduate Studies
College of Engineering and Technology
- 1/1/06-11/25/13 Professor and Chair
Department of Electrical and Computer Engineering
Old Dominion University, Norfolk, VA 23529
- 1993-2005 Professor, Department of Electrical Engineering, Southern Illinois University, Carbondale, Illinois 62901.
- 1989 - 1993 Associate Professor, Department of Electrical Engineering, Southern Illinois University.
- 1984 - 1989 Assistant Professor, Department of Electrical Engineering, Southern Illinois University.
- Summer 1986 Summer Faculty Fellow, Wright Patterson Air Force Base, Dayton, Ohio.
- 1979 - 1984 Research Assistant, Department of Electrical Engineering, Texas Tech University, Lubbock, Texas.
- 1978-1979 Avionics Engineer, Hindustan Aeronautics LTD., Hyderabad, India.

Teaching Interests:

Analog Electronics, Gaseous Electronics, and Electrical Energy Systems.

Teaching Experience:

Taught undergraduate and graduate courses for 29 years. Undergraduate courses taught: Analog and Digital Electronics, Solid State Devices and Materials, Laser Electronics. Graduate courses taught: Analog VLSI, Gaseous Electronics, Solid State Devices and Physics, MOS Modeling.

Teaching Awards:

2005 Outstanding Teacher Award, the Society of Women Engineers, SIUC Chapter.
2005 Certificate of Appreciation, National Society of Black Engineers, SIUC Chapter
2004-2005, Best Teacher Award in Electrical and Computer Engineering, SIUC.
2004 Recipient of the College Excellence through Commitment Outstanding Teaching Award.
2003-2004 Best Teacher Award in College of Engineering SIUC.
2002-2003 Best Teacher Award in Electrical and Computer Engineering, SIUC.
1998-1999 Best Teacher Award in Electrical and Computer Engineering, SIUC.
1997-1998 Best Teacher Award in Electrical and Computer Engineering, SIUC
1996-1997 Best Teacher Award in Electrical and Computer Engineering, SIUC

Research Interest:

Solar/Wind energy, Smart Grids, Analog VLSI, Atmospheric Pressure Plasma Processing.

Research Funding:

NSF DUE, "SoLar Engineering Academic Program (SoLEAP), Namkoong (PI), Hou, Chen, Dhali and Marsillac, 7/1/2014-6/30/2017, Amount \$600,000.
Dominion Foundation, "Training Future Engineers in Green Energy Technology," September 2013-July 2014, Amount \$40,000. (with S. Marsillac, co-PI)
Commonwealth Research Commercialization Fund, "Smart Combiner for Residential Photovoltaic System,"), June 2013-June 2014, Amount \$75,000. (with Sylvain Marsillac, co-PI)
Dominion Resources, "Development of a test facility for Photovoltaic systems," , January 2013-December 2015, Amount \$500,000. (with Sylvain Marsillac, PI).
Commonwealth Research Commercialization Fund, "Embedded Health Monitoring for Large-scale Solar Power Systems,"), July 2012-August 2013, Amount \$150,000. (with Sylvain Marsillac, PI)
Trabant Solar, "Installation of a Roof-top tracking photovoltaic system at Old Dominion University," October 2011-September 2012, Amount \$200,000. (with S. Marsillac PI)
Dominion Foundation, "Rooftop solar energy system as a learning tool,".September 2011-July 2012, Amount \$40,000. (with S. Marsillac, PI)
Dominion Foundation, "Future Energy Career Training," October 2010-June 2011. Amount \$30,000. (with Shu Xiao, PI)
University of Minnesota/DoE, "A Nationwide Consortium of Universities to Revitalize Electric Power Engineering Education by State-of-the-Art Laboratories" July 2010 to July 29, 2013, Amount \$25,000. (with Shu Xiao, co-PI).

National Science Foundation, "2010 IEEE International Conference on Plasma Science-student travel support," 6/1/2010-5/31/2011, Amount \$10,000, (with M Laroussi, PI).

National Science Foundation, "Planning Grant for IUCRC Wind Research," August 2009-Sept. 2010, Amount: \$10,000. (with Larry Atkinson ,PI).

National Institute of Aerospace Associates, "Advanced Aerospace and Space Materials Development," July 7, 2008-Sept. 30, 2009, Amount: \$136,727. (with Sacharia Albin , PI).

Virginia Coastal Energy Research Center, "Electrical requirements for an off-shore wind farm," July 2007-June 2009, Amount \$55,000.

Office of Naval Research "Multi-Sensor Electro-Optic Image Based Scene Understanding for Navy Security Automation", September 2006 – December 2009, Amount: \$958,000. (with PI: Vijayan Asari, Co-PI: Mohammad A. Karim).

Illinois Council of Food Agricultural Research "Use of Plasma for Destruction of Microbial Hazards in Food" July 2005- June, 2007, Amount \$134,860.

National Science Foundation, "Ambient non-thermal plasma for use in manufacturing," July 2000-June 2006, Amount \$260,000.

National Science Foundation "Dual-Pressure Discharge for the Generation of Atmospheric Pressure Plasma," Sept. 1, 1996 to August 1, 1999, Amount: \$197,644.

University of Chicago/Illinois board of Higher Education "Material characterization with APS synchrotron source," August 1 2003-August 31, 2004, Amount \$45,000.

Illinois Clean Coal Institute, "Non-thermal Plasma for removal of SO₂/NO_x" Nov. 1999 to Oct 2000, Amount \$68,000.

USDOE/Illinois Department of Energy and Natural Recourses "Combined Removal of SO₂ and Ox from flue gas using non-thermal plasma," Sept. 1, 1994 to Aug. 31, 1995, Amount: \$59,000.

USDOE/Illinois Department of Energy and Natural Recourses, "Plasma-Assisted Cleanup of Flue gas, September 1993 to August 1994, Amount \$59,000.

USDOE/Illinois Department of Energy and Natural Recourses, "Plasma-Assisted Cleanup of Flue gas," September 1992 to August 1993, Amount \$65,000.

Illinois Department of Energy and Natural Recourses "Enhancement of phases of high T_c superconductors using magnetic separation," Feb. 15, 1992 Feb. 14, 1993, Amount: 56,000.

Illinois Department of Energy and Natural Recourses, "Laser-Triggered Superconducting Opening Switch," May 15, 1991 - November 15, 1992, Amount \$40,000.

Illinois Department of Energy and Natural Recourses, "Laser-Triggered Superconducting Opening Switch," IDENR, April 15, 90- April 14, 91, Amount \$40,000.

Illinois Department of Energy and Natural Recourses, "Laser-Triggered Superconducting Opening Switch," April 1, 89-Jan. 31, 90, Amount \$ 25,000.

US Department of Energy/Coal Technology Laboratory "Corona Enhanced Absorption of SO₂/NO_x," January 1, 1988 - December 31, 1989. Amount \$80,000.

Air Force Office of Scientific Research "Pulsed Nitrogen Discharges for Plasma Processing," January 2, 1987 - December 31, 1987. Amount: \$20,000.

National Science Foundation, "Electrical Breakdown of Gases in Long Gaps," National Science Foundation, October 1985 - October 1986. Amount: 25 CPU Hours on a Cray XMP.

Illinois Mining and Mineral Resources Research Institute, "Characterization of Thin Films of

Pyrite (FeS₂), July 1985 - June 1986. Amount: \$10,000.

List of Journal Publications:

1. Malik, M. A., Jiang, C., Dhali, S. K., Heller, R., & Schoenbach, K. H. "Coupled Sliding Discharges: A Scalable Nonthermal Plasma System Utilizing Positive and Negative Streamers on Opposite Sides of a Dielectric Layer." *Plasma Chemistry and Plasma Processing*, 2014, DOI: 10.1007/s11090-014-9528-2
2. D. S. Rawat, N Taylor, S. Talapatra, S. K. Dhali, P. M. Ajayan, and A. D. Migone, "Effect of surface cleaning and functionalization of nanotubes on gas adsorption," *Physical Review B*, vol. 74, 113403 (2006).
3. Shariff Shakir*, Sandhya Mynampati, Bijan Pashaie, Shirshak Dhali, "rf-generated ambient-afterglow plasma," *Journal of Applied Physics*, Vol. 99, 073303-1(2006).
4. B. C. Dave, Xiankui Hu, Yogeewari Devaraj, and S. K. Dhali, "Sol-gel derived Corrosion-Protection coatings," *Journal of sol-gel science and technology* Vol. 32, pp143 (2004).
5. S. Seethamsetty, S. K. Dhali, and B. Dave, "A Wet Plasma Reactor for Remediation of SO₂," *Applied Physics Letter*, pp 4298-4230, December 24, 2001.
6. R. Sankaranarayanan, B. Pashaie, S. K. Dhali. "Laser-Induced Fluorescence of OH Radicals in a dielectric-barrier discharge." *Applied Physics Letters*, vol. 77, pp 2970-2(2000).
7. H. Park, and S. K. Dhali, "Generation of Atmospheric Pressure Plasma with Dual Chamber Discharge," *Applied Physics Lett.* vol. 77, pp2112-2114, (2000).
8. R. Sankaranarayanan, B. Pashaie, and S. K. Dhali, "Characteristics of a barrier discharge in monatomic and molecular gases," *Applied Physics Letters*, Vol. 74(21), 3119(1999).
9. B. Pashaie, R. Sankaranarayanan, and S. K. Dhali, "Experimental investigation of microdischarges in a dielectric-barrier discharge," *IEEE Tran. On Plasma Science*, vol. 27(1) 22(1999).
10. K. Durbhakula and S. K. Dhali "Computer generated images of streamer propagation," *IEEE Tran. On Plasma Science*, vol. 27(1) 24(1999).
11. S. K. Dhali, "Analysis of the differential amplifier with an active load" *IEEE Tran. On Education*, vol 42, no. 4, 368-370(1998).
12. Li, J., and S. K. Dhali, "Simulation of microdischarges in a dielectric-barrier discharge," *J. Appl. Phys.*, vol. 82, 4205-4210 (1997).
13. Sun, W., B. Pashaie, S. K. Dhali, and F. I. Honea, "Non-thermal plasma remediation of SO₂/NO using a dielectric-barrier discharge," *J. Appl. Phys.* 79, 348-3444(1996).
14. Pashaie, B., Jing Li, Sun Wanming, S. K. Dhali, and F. I. Honea, "Non-Thermal Plasma for Cleanup of Flue Gas," *Emerging Technology in Hazardous Waste Management*, vol. 6, 209-223 (1996).
15. Li, J., S. Wanming, B. Pashaie, and S. K. Dhali, "Streamer Discharge Simulation in Flue Gas," *IEEE Tran. Plasma Science*, 23, 672(1995).
16. Pashaie, B., S. K. Dhali, and F. I. Honea, "Electrical Characteristics of a coaxial dielectric-barrier discharge," *J. Physics D*: 27, 2107(1994).
17. Wang, L., S. K. Dhali, "Measurement of the critical current of high-T_c superconductors," *Supercond. Sci. Technol.*, vol. 8, 199-202(1993).
18. Ganesh S., A. Rajabooshanam, and S. K. Dhali, "Numerical Studies of Streamer to Arc

- Transition," J. Appl. Phys. 72, 3957(1992).
19. Dhali, S. K. and L. Wang, "Transient response of a high-Tc superconducting thin film," Appl. Phys. Lett., vol. 61, 1594-1596(1992).
 20. Dhali, S. K. and M. Mohsin, "High-Tc Superconducting Switch," Review of Scientific Instruments, vol. 63, 220-224(1992).
 21. Dhali, S. K. and Sardja, I., "Dielectric-barrier discharge for processing of SO₂," J. Appl. Phys. 69, 6319-6324(1991).
 22. Segers, M. and Dhali, S. K., "Thin film deposition using a dielectric-barrier discharge," Journal of the Electrochemical Society, 138, 274(1991).
 23. Sardja, I. and Dhali S. K., "Plasma Oxidation of SO₂," Applied Physics Letters 56(1), pp21-24(1990).
 24. Dhali, S. K., "Electrical Characteristics of Pulsed Glow Discharges," IEEE Transactions on Plasma Science, 17, 603-609(1989).
 25. Dhali, S. K., and Low, L. H., "Transient Analysis of Bulk Nitrogen Glow Discharge," J. Appl. Phys., 64, 2917-2923(1988).
 26. Dhali, S.K. and Pal, A.K., "Numerical Simulation of Streamers in SF₆," J. Appl. Phys., 63, 1355-1363, (1988).
 27. Dhali, S.K. and Williams, P.F., "Two-dimensional Studies of Streamers in Gases," J. App. Phys., vol. 62, 4696-4707, (1987).
 28. Dhali, S.K. and Williams, P.F., "Numerical Simulation of Streamer Propagation in Nitrogen at Atmospheric Pressure," Physical Review A: Vol. 31, 2, pp. 1219-1221, (1985).
 29. Dhali, S.K., Williams, P.F., Crumly, R.J., and Gundersen, M.A., "Electron Densities in Laser-Triggered Hydrogen Sparks," IEEE Transactions on Plasma Science, 8, 164, (1980).

List of Conference Publications:

1. Yunus Erkaya, Hareen Sekhar Illa, Caitlin Conway, Shirshak Dhali, Sylvain X Marsillac "Development of a String Level Fault Detection System for Solar Tracking Applications," 40th IEEE Photovoltaic Specialist Conference, June 2014.
2. Chad Herndon, Yunus Erkaya, Chunsheng Xin, Shirshak Dhali, Sylvain X. Marsillac, Smart Combiner for Fixed Commercial Photovoltaic Systems Using Power Line Communication, 40th IEEE Photovoltaic Specialist Conference, June 2014.
3. Praveen Meduri and Shirshak Dhali, "Methodology for automatic transistor-level sizing of CMOS OpAmps, Proceedings of the 24th Annual Conference on VLSI Design, Chennai, Jan 2011.
4. Shirshak K. Dhali and Mahidhar Nandigam, "Design of Electrical Layout of Offshore Windfarms, AWEA, North American Offshore Wind Conference & Exhibition, Atlantic City, NJ, October 5-7, 2010.
5. Praveen K. Meduri and Shirshak K. Dhali, "A Framework for Automatic Sizing of CMOS Operational Amplifiers", proceedings of International Conf. on Mod., Sim. and Vis. Methods (MSV'10), July 2010.
6. Praveen K. Meduri and Shirshak K. Dhali, "A Framework for Automatic CMOS OpAmp Sizing", proceedings of IEEE 53rd International Midwest Symposium on Circuits and Systems (MWSCAS'10), August 2010.

7. Begum, A. Dhali, S.K. Laroussi, M., "Investigation of the plasma bullets generated by low temperature plasma jets," IEEE 35th International Conference on Plasma Science, June 2008.
8. M. Nandigam and S. K. Dhali, "Optimal Design of an offshore wind farm layout," Proceeding of the 19th International Symposium on Power Electronics, Electric Drives, Automation and Motion, Speedam, IEEE Catalog Number CFP0848A-CDR, 2008.
9. Shariff Shakir, Sandhya Mynampati, Bijan Pashaie, and Shirshak Dhali, "Ambient Afterglow Plasma," 17th International Symposium on Plasma Chemistry, Eds. J. Mostaghimi, T. W. Coyle, V. A. Pershin, and H. R. Salimi Jazi, 236(2005).
10. Sridevi Bankupalli, Shirshak Dhali, and Michael Madigan. "Ambient Plasma in Decontamination of Microorganisms," 17th International Symposium on Plasma Chemistry, Eds. J. Mostaghimi, T. W. Coyle, V. A. Pershin, and H. R. Salimi Jazi, 1072(2005).
11. Srikantha Sahu, Shirshak Dhali, Bakul Dave, "Sol-gel Coatings on Ambient Plasma on Polymers," 17th International Symposium on Plasma Chemistry, Eds. J. Mostaghimi, T. W. Coyle, V. A. Pershin, and H. R. Salimi Jazi, 745(2005).
12. S. Dhali, "Non-thermal plasma technology: A tool for sustainable product development," Global Conference on Sustainable Product Development and Life Cycle Engineering. Sept 29-Oct1, 2004, Berlin, Germany.
13. S. Dhali, "Atmospheric Pressure Plasma in Manufacturing," 2004 NSF design, Service and Manufacturing Grantees and Research Conference, January 7-10, 2004, Dallas.
14. S. Dhali, Rayan Yellina and B. Pashaie, "Atmospheric Pressure Afterglow plasma," Bulletin of the American Physical Society, vol. 48, no. 6, 52(2003).
15. Prasad Nuamatha and S. Dhali, "Ambient Plasma for metal Surface Treatment," Bulletin of the American Physical Society, vol. 48, no. 6, 73(2003).
16. Navin Muthuswami, Bijan Pashaie, Shirshak Dhali, Radio frequency atmospheric pressure plasma in Argon, Bulletin of the American Physical Society, Vol. 7, no. 7, 52(2002).
17. P. Nuamatha, J. Madella, S. Dhali, B. Dave, S. K. Dhali, "Atmospheric pressure plasma for metal surface preparation" CD ROM proceedings of the 16th International Symposium on Plasma Chemistry, Edited by R. d'Agostino, P. Favia, F. Fracassi, F. Palumbo, University of Bari, (2003).
18. N. Muthuswamy, B. Pashaie, S. K. Dhali, "Atmospheric Pressure Afterglow Plasma in Argon," " CD ROM proceedings of the 16th International Symposium on Plasma Chemistry, Edited by R. d'Agostino, P. Favia, F. Fracassi, F. Palumbo, University of Bari, (2003) .
19. Prasad Nuamatha, Bijan Pashaie, Shirshak Dhali, Bakul Dave, Ambient non-thermal plasma for metal surface treatment, Bulletin of the American Physical Society, Vol. 7, no. 7, 31(2002).
20. Shirshak Dhali, Sreeram Seetamsetty, and Bakul Dave, "A wet plasma Scrubber for Removal of Sulfur Dioxide," Bulletin of the American Physical Society, Vol. 6, pp34, 2001.
21. Shirshak Dhali, N. Muthuswamy, Bakul Dave, "A RF Discharge in Argon at Atmospheric Pressure," Bulletin of the American Physical Society, Vol. 6, pp39, 2001.
22. S. Seethamsetty, S. K. Dhali, B. Dave, and R. Carty, "A wet plasma scrubber for use in Industrial pollution Control," Proceedings of IEEE Pulsed Power Plasma Science Conference, PPPS-2001, pp1818-1821 (2001).
23. S. Seethamsetty, S. K. Dhali, B. Dave, and R. Carty, "A Wet Atmospheric Pressure Plasma

- Scrubber," Proceedings of the 15th International Symposium on Plasma Chemistry, Ed. A. Bouchoule, J. M. Pouvesle, A. L. Thomann, J. M. Bauchire, and E. Robert, GREMI, CNRS/University of Orleans, vol. 7, 3129(2001).
24. H. Park, N. Muthuswamy, S. K. Dhali, "Dual Chamber Discharge at Atmospheric Pressure," Bulletin of the American Physical Society, Vol. 45, no.6, 49(2000).
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 NSF Supercomputing Resources Reviewer, 1988.

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