

RESUME

1. Name: A. Anil Kumar
Academic Rank: Professor (Full Time)

2. Education:

Indian Institute of Science, Bangalore	Physics	Ph.D.1978
Indian Institute of Technology, New Delhi	Physics	M.Sc. 1973
Osmania University, Hyderabad, India	Physics	B.Sc. 1971

3. Academic Experience:

1996-present Professor, Department of ECE, Prairie View A&M University
2001-2011 Department Head, Physics
2001-2003 Associate Dean, College of Arts & Sciences
1998-2001 Director of Research & Special Assistant to the President for Science & Technology
1997-1998 Associate Dean for Research, College of Engineering
1989-1996 Associate Professor, Electrical Engineering
1986-1989 Assistant Professor, Electrical Engineering
1985-1986 Visiting Lecturer, Electrical Engineering
9/83-8/85 Visiting Assistant Professor - Texas A&M University,
9/81-8/83 Professional Associate, University of Manitoba, Canada
10/79-8/81 Research Associate, Simon Fraser University, Canada
5/79-10/79 Visiting Research Fellow, Electronic Structure In Solids Program, University de Liege, Belgium
2/78-5/79 Research Fellow, University of Warwick, England, Physics

4. Non-Academic Experience:

- Based on a grant from the SBA (Small Business Administration), mentored small businesses on proposal development to SBIR (Small Business Innovation Research) and STTR (Small Business Technology Transfer Research) initiatives.
- Based on a grant from DOL (Department of Labor), explored the possibility of setting up business and technology incubators at HBCUs. Sponsored and conducted a national conference and a regional conference on this subject.

5. Certification and Professional Registration: None.

6. Current Memberships in Professional Organizations:

- Member, Institute of Electrical and Electronics Engineers
- Member, AAAS (American Association for the Advancement of Science)

7. Honors and Awards (selected list):

1. 2012 Harmony Public Schools Public Servant Award (2012)
2. Recipient of the Thurgood Marshall College Fund's Outstanding Achievement Award for School Reform (2009)
3. One of five faculty members in the TAMU System to have received the Distinguished Achievement Award from the Board of Regents (2004)

8. Service Activities (within and outside of the institution)

- Chair, Engineering Dean Search Committee
- Member, NSF Review Panels (frequent)
- Member, international delegation of the Thurgood Marshall College Fund to China, Malaysia, Singapore and Ghana (2010, 2011, 2017)
- Member, Physics EOC (End Of Course) Standards Panel, Texas Education Agency
- Judge, I-SWEEEP (International Sustainable World Project Olympiad (Energy, Engineering & Environment)
- Reviewer, Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST) Science Review Committee (2014)

9. Publications and Presentations from the Last Five Years

1. A.A. Kumar and E. M. Stoerkel, *Shattering Fixed Mindsets – Cultivating an Environment of Innovation*, Presentation at the ME by SEA Conference, TAMU-Corpus Christi, June 2022
2. E.M. Stoerkel and A.A. Kumar, *Teaching to Make it Stick*, Presentation at the ME by SEA Conference, TAMU-Corpus Christi, June 2022
3. A.A. Kumar, *Promoting and Assessing Metacognition*, Paper presented at 2022 ASEE Gulf Southwest Annual Conference, Prairie View, Texas.
<https://peer.asee.org/39200>
4. E.M. Stoerkel, J. R. Valles & A. A. Kumar, *Employing a Scaffolding Technique to Facilitate Deeper Learning*, Presentation at the ME by SEA Conference, TAMU-Corpus Christi, June 2018
5. J.R. Valles, E.M. Stoerkel & A.A. Kumar, *Fluid Thinking with Euler's Formula*, Presentation at the ME by SEA Conference, TAMU-Corpus Christi, June 2018
6. A. A. Kumar, *From Standards to Competencies*, Presentation at the ME by SEA Conference, TAMU-Corpus Christi, June 2017
7. A. Kumar, *Biomimetics – A New Discipline*, Presentation at the ME by SEA Conference, TAMU-Corpus Christi, June 2017

Software/Hardware Systems Developed: (i) CSPIFF - Circuit Simulation Program In the Presence of Fatal Faults for reliability and fault-tolerance of large scale electronic systems; (ii) CSIM - Communication Systems Simulator for simulation of arbitrary communication systems; (iii) BCHS – Bone Conduction Headset – a novel communication system designed for NASA-JSC and demonstrated at NASA JSC Inspection Days '99.

10. Professional Development Activities: IEEE Houston Branch Meetings; Travelled to China, Malaysia and Singapore as a member of the Thurgood Marshall College Fund Delegation.