

## *BIO-DATA*

**Name:** V.Satya Prakash

**Designation:** Asst Prof of Physics

**Address:** Tara Govt. College (Autonomous)

Sangareddy, Telangana, India.

Pin Code: 502001

**Qualifications:**

(1) M.Sc. (Physics), Osmania University, Hyderabad , 1998.

Specialization: Computational Physics

(2)U.G.C-C.S.I.R- N.E.T (L.S) June 2012: Qualified with All India Rank 8 in Physical Sciences

(3)Qualified State Level Eligibility Test (APSET) in Physical Sciences conducted by Osmania University, Hyderabad in July 2012

(4)GATE 2012: Qualified with all India rank 242 in Physics

(5)Ph.D. (Physics): Registered in Osmania University, Hyderabad in 2017.

Topic: A Study of Composite Polymer Electrolyte Materials for Li-ion Batteries

**Experience:**

(1)2000 Nov-2004 Dec: Lecturer in Physics (Contract Basis), M.V.S Govt Degree College Mahabubnagar, Telangana, India.

(2)2004 Dec-2008 June: Junior Lecturer in Physics (Govt Service), Govt Junior College Kosgi, Mahabubnagar Dist, Telangana, India.

(3)2008 June-2013 May: Junior Lecturer in Physics (Govt Service), Govt Junior College (Boys) Sangareddy, Medak Dist, Telangana, India.

(4)2013 May -2018 June date: Asst Prof of Physics (Govt Service), Govt Degree College Medak, Medak Dist, Telangana, India.

(5)2018 June – till date: Asst Prof of Physics (Govt Service), Tara Govt Degree College (Autonomous) Sangareddy, Sangareddy Dist, Telangana, India



### **Courses Attended:**

- (1) Attended 35th Orientation Course of UGC Academic Staff College, Jawaharlal Nehru Technological University (JNTU), Hyderabad from 21/10/2013 to 19/11/2013.
- (2) Attended Two Week Science Academies 95<sup>th</sup> Refresher Course in Experimental Physics from 9<sup>th</sup>-24<sup>th</sup> Jan 2018 at National Institute of Technology (NIT), Warangal.
- (3) Attended online Short Term Course on ICT tools in Higher Education UGC-HRDC conducted by UGC-HRDC, Osmania University, Hyderabad, from 20/08/2020 to 26/08/2020.
- (4) Attended online one week Faculty Development Programme on Quantum Physics Simulations using Gnumeric Worksheets conducted by Department of Physics and Astronomical Sciences, Central University of Himachal Pradesh (CUHP), from 1 - 7 August, 2021.
- (5) Attended online Two Week Refresher Course in Natural Sciences conducted by TLC, Ramanujan College, New Delhi, from dt.20/09/2021 to 04/10/2021.
- (6) Attended online one month Refresher Course on Astronomy and Astrophysics conducted by TLC, Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune from dt.16/5/2022 to 17/6/2022.

### **Papers Presented in International Conferences:**

- (1) A Paper titled "Towards a New Monte Carlo Code of Space Radiation" presented in brief oral presentation session of "Frontiers of Fundamental Physics" International Symposium organized by B.M Birla Science Centre Hyderabad, from Nov 14-16, 2013.

### **Projects Undertaken:**

- (1) A Project titled "A New Monte Carlo Code of Space Radiation" has been sanctioned by U.G.C under **Minor Research Project (MRP)** vide letter F.No:4-4/2013-14(MRP-SEM/UGC-SERO) with financial assistance of Rs 1, 70,000/- is completed in the year 2016

- (2) A Summer Research Project is completed at the **Institute of Mathematical Sciences (I.M.Sc)** Chennai, in the year 2015, with the **Summer Research Fellowship (SRF)** jointly sponsored by IASc (Bengaluru), INSA (New Delhi) and NASI (Allahabad)

**Title:** A Study of Shielding Effectiveness of Different Materials for Space Radiation

**Supervisor:** Dr S.R.Hassan

### Membership in Professional Bodies:

- (1) Life Member, **Indian Science Congress Association (ISCA)**, Kolkata.
- (2) Life Member, **Indian Association of Physics Teachers (IAPT)**, Kanpur.
- (3) Life member, **Indian Society for Radiation Physics (ISRP)**, Kalpakkam.

(Since Jan 2023)

### Papers Published:

- (1) Validation of Geant4 Physics Models Relevant for Space Radiation. **American Journal of Environmental Protection**. Vol. 6, No. 1, 2017, pp. 18-25. doi: <https://doi.org/10.11648/j.ajep.20170601.13>

ISSN: 2328-5680 (Print); ISSN: 2328-5699 (Online)

- (2) Geant4 Based Space Radiation Application for Planar and Spherical Geometries. **Advances in Applied Sciences**. Vol. 2, No. 6, 2017, pp. 110-114. doi: <https://doi.org/10.11648/j.aas.20170206.13>

ISSN: 2575-2065 (Print); ISSN: 2575-1514 (Online)

- (3) Using sound card oscilloscope for generation of Lissajous Figures. **Bulletin of the Indian Association of Physics Teachers**. Vol. 11, No. 12, 2019, pp. 344-348.

ISSN: 2277-8950(Print)

- (4) Chua's Circuit: A paradigm of chaotic systems, **Resonance - journal of science education**, Vol. 25, No. 12, Dec 2020, pp. 1721-1730. DOI: <https://doi.org/10.1007/s12045-020-1092-x>

ISSN: 0971-8044(Print)

- (5) Fourier's Legacy in Modern Science **Bulletin of the Indian Association of Physics Teachers**, Vol. 13, No. 11, Nov 2021, pp. 399-406.

<https://www.indapt.org/docs/publications/bulletin/2021/11-2021.pdf>

ISSN: 2277-8950(Print)

### Honours and Awards:

#### A. Refereeing/Reviewing:

- (1) Referee for international journal - **Journal of Physics D: Applied Physics** published by **IOP Publishing**, UK.
- (2) Referee for international journal - **Materials Research Express** published by **IOP Publishing**, UK.

(3)Referee for international journal -**AIP Conference Proceedings** published from **AIP Publishing**, US.

(4)Referee for international journal- **Smart Materials and Structures** published by **IOP Publishing** UK.

(5)Referee for international journal -**Nonlinear Dynamics** published by **Springer Publishing**, Switzerland. **(Since Sept 2022)**.

#### **B. Biographical Notes:**

(1)Biographical note is included in **Asian Admirable Achievers (Vol X) 2018 & Biography India 2021** published by Rifacimento International, New Delhi-110002.

(2)Biographical note is included in **Famous India: Nation's Who's Who 2018** published by Reguerdon Inc., Delhi-110006.

#### **C. Honorary Memberships:**

**(1) Recognized as Honorary Rosalind Member of London Journals Press, UK (2020).**

#### **D. Teacher Invitee:**

**(1) Invited as Teacher to attend the Eighty-second Annual Meeting of the Indian Academy of Sciences (IASc), Bangalore** to be held at Bhopal during November 4-6, 2016.

#### **Additional Skills:**

Having the experience of working on Sahasra T Cray XC 40, country's first Peta Flops Super Computer, at Super Computing Education and Research Centre (SERC), Indian Institute of Science (IISc) Bangalore. This is the fourth fastest supercomputer in India and ranks 327 in the world (2019).