

**SRINIVASA RAO YAMMANI**  
 Professor of Geology,  
 Chairman, Board of Studies &  
 Dean: Faculty of Science  
**ADIKAVI NANNAYA UNIVERSITY**  
 Rajahmundry – 533 296, A.P., India

1. Name : SRINIVASA RAO YAMMANI  
 2. Residential Address : Shanthi Residency, FF-2, 5<sup>th</sup> flr, Syamala Nagar,  
 Rajahmundry- 533103, A.P.,  
 3. Date of Birth : 02.06.1966  
 4. Designation : Professor  
 5. Department : Geology  
 6. Office Address : Dept. of Geology, Adikavi Nannaya University,  
 Rajahmundry - 533296  
 7. Nationality : Indian  
 8. Educational Qualifications:

<b>GIS applications in Geosciences</b> , Indian Institute of Remote Sensing, Dehradun, India	1998
<b>Doctor of Philosophy</b> , Sri Venkateswara University, Tirupati, India	1994
<b>Master of Philosophy</b> , Sri Venkateswara University, Tirupati, India	1990
<b>Master of Science (Geology)</b> , Annamalai University, Tamilnadu, India	1989
<b>Bachelor of Science (Geology, Botany and Chemistry)</b> , Nagarjuna University, A.P., India	1987

**9. Teaching & Research (i.e., including Post-doc) Experience: 24Y**

Sl. No	Position held	Institution/University	Period	No.of years	Nature of work
1	Professor	Adikavi Nannaya University	2014 onwards	6 ½	Teaching & Research
2	Associate Professor	Adikavi Nannaya University	2008 to 2014	6	Teaching & Research
3	CSIR-SRA (Pool Scientists' Scheme)	Sri Venkateswara University	2005 to 2008	3	Research & Teaching
4	DST-Young Scientist	Sri Venkateswara University	2001 to 2005	4	Research & Teaching
5	UGC-RA	Sri Venkateswara University	1995 to 2000	5	Research & Teaching

**10. Academic administration Experience:**

S. No	Position held	University	Period
1	AKN University Nodal officer - Jal Shakthi Abhyan	ANUR	02.05.2022 onwards
2	Dean: Faculty of Science	ANUR	2012 onwards
3	Chairman: Board of Studies	ANUR	2012 onwards
4	Dean: Academic Affairs	ANUR	2018 – Oct 2021
5	Dean: IT	ANUR	Oct2018-Nov2018
6	Dean: CDC	ANUR	2015 to 2018
7	Principal: UCST	ANUR	2012 to 2015
8	Head (I/C): Dept of Physics	ANUR	2014 to 2015
9	Head: Dept of Geology	ANUR	2012 to 2015
10	Head: Dept of Geoinformatics & Petroleum Exploration	ANUR	2010 to 2012
11	Co-ordinator: 5Y- Int- M Sc (Petroleum Expl)	ANUR	2008 to 2010
12	Co-ordinator: University Library	ANUR	2010 to 2015
13	Co-ordinator: AP Akademi of Sciences- Rajahmundry Reg.Center, ANUR	ANUR	2013 onwards
14	Research Co-coordinator: Research Cell	ANUR	2010 to 2012
15	Co-ordinator: TePP Outreach Counselling Center	ANUR	2009 to 2010

## 11. Professional recognition, awards and fellowships received – (9)

- **Fellow** of AP Akademi of Sciences, Hyderabad 2014
- **Associate Fellow** of AP Akademy of Sciences, Hyderabad 2010
- **Senior Foreign Researcher Award** from Politecnico di Torino, **Italy** 2008
- **Associate Professor**, Arbaminch University, Ethiopia, Received appointment 2004
- **CSIR-SRA (Pool Scientist)**, Govt. of India, New Delhi 2004
- **Commonwealth Science Counsel's Travel Award** 2003
- **DST-Young Scientist's Project award**, Govt. of India 2001
- **UGC-Research Associateship**, Govt. of India 1995
- **University Merit Fellowship (For PhD Research)**, SV Univ., Tirupati, India 1992

## 12. Memberships of professional bodies (12)

- Member: BOS in Geology, Andhra University (02.07.2020 to 01.07.23)
- Member: Board of studies, Department of Geochemistry, Osmania University, Telangana state, India (sept-2018-2020)
- International Association for Hydro-Environment Engineering and Research – Senior member
- Geological Society of America – USA (No. **9146022**)
- European Association of Environmental and Resource Economists (EAERE): Italy–Member (2010)
- International Association of Hydrological Sciences, UK: Member (8935)
- Indian Association of Environmental Management, India: Life membership (LM-1585)
- National Environmental Science Academy, India: Life membership (LM-1243)
- Indian Association of Hydrologists, India: Life membership, (LM-5/2002)
- Indian Water Resources Society, India: Life membership (LM-5131)
- Indian Society of Remote Sensing, India: Life membership (L-1822)
- International Association for Engineering Geology and Environment (IAEG)
- International Geoscience Education Organisation (IGEO)
- Young Earth Scientists Network (YES)

## 13. Research Interests

- Sustainable development and management of Mineral resources & Environment
- Climate Change and Water resources
- Human impact on Depositional Environments
- Applications of RS & GIS

## 14. Research Experience

- Exploration and management of Groundwater resources, applications of Remote sensing and GIS in geological, geomorphological, Groundwater and environmental studies.

## 15. Research projects handled: (National funded: 4)

- "Performance and Evaluation of Rainwater Harvesting Structures in Dosalavanka River Basin, Chittoor District, A.P., India" **Funded by Counsel of Scientific and Industrial Research, Govt. of India** (2008). Under CSIR-Pool Scientists Scheme
- "Fracture pattern modeling studies, Water Resources Information System (WRIS) development for the development and management of water resources in Ponnai river basin, A.P., India" **Under Young Scientists' Scheme funded by Dept. of Science & Technology, Govt. of India** (2005).
- "Remote sensing and GIS Applications in Groundwater prospects mapping in parts of Rajasthan and Madhya Pradesh, India" for NRSA (June, 2001)
- "A study of the impact of Industrial effluents and Trace metallic species in ground water of Chittoor Town, Chittoor district, Andhra Pradesh, India", for the **University Grants Commission Research Associateship**, at Sri Venkateswara University, Tirupati, Andhra Pradesh, India (June, 2000)
- "Ground Water potentiality and its quality suitability - using Remote Sensing and GIS", Chittoor area, Chittoor District, Andhra Pradesh, India" **Indian Institute of Remote Sensing**, Dept. of Space, Government of India, Dehradun, India (July 1998)

- “Hydrogeology and Some Environmental aspects of Niva river basin, Chittoor district, Andhra Pradesh, India”, **Ph.D. thesis** submitted to **Sri Venkateswara University**, Tirupati. (June 1993)
- “Hydrogeology of Sri Kalahasti and its Environs, Chittoor district, Andhra Pradesh, India”, **M.Phil dissertation** submitted to **Sri Venkateswara University**, Tirupati (December 1990)
- “Petrological and geochemical studies on Southern Extension of Kolar Gold Field, Maharajakadai, Tamilnadu, India”, **M.Sc dissertation** submitted to Annamalai University, Chidambaram (1989)

#### 16. Professional training courses and workshops attended (13)

- Leadership Training workshop on “**Resource Mobilization strategies for the public universities of AP for Vice Chancellors, Registrars and Finance Officers**” (Govt of HE, AP) Administrative Staff College of India, Hyderabad, 27-28<sup>th</sup> October, 2015
- **iGEON workshop, University of Hyderabad, Hyderabad, India, 4<sup>th</sup> – 8<sup>th</sup> January, 2009**
- **Existing tools and related mapping software in geological, seismological, geomorphological, Remote sensing & GIS applications** (DST-Training course), University of Delhi, Delhi, India, 6<sup>th</sup> – 7<sup>th</sup> December 2007.
- **Groundwater flow and Mass transport modelling for assessment and management of Aquifers** (DST-Training course), Water Technology Centre, TNAU, Coimbatore, India, 13<sup>th</sup>–30<sup>th</sup> October, 2005.
- **Remote sensing in Agriculture with special emphasis on precision farming** (Dept of Space winter school), IARI, New Delhi, India, 17<sup>th</sup> March - 10<sup>th</sup> April, 2003.
- **Field training in Sedimentary terrain of the Cuddapah basin**, Sumadhura technologies Ltd., Hyderabad, India, 21<sup>st</sup> – 25<sup>th</sup> February, 2003.
- **Shear zones -mapping and analyses** (DST-Contact course), Sambalpur University, Orissa, India, 20<sup>th</sup> -29<sup>th</sup> December, 2002.
- **Modelling in Hydrogeology** (UNESCO-IHP International training workshop), Anna University, Chennai, India, 3<sup>rd</sup> - 7<sup>th</sup> December 2001.
- **Application of Remote sensing to Groundwater (CARD-UNICEF Training program)**, RASS-Tirupati, India, 29<sup>th</sup> – 31 October, 1998.
- **Applied Geomorphology using Remote Sensing**, A contact course / Field Workshop (Department of Science & Technology, India), IIT (Indian Institute of Technology), Powai, Mumbai, India, 12<sup>th</sup> - 23<sup>rd</sup> January, 1998.
- **Human Resources Development and Technical aspects of Rural Sanitation and Drinking Water**, National Institute of Rural Development (Govt. of India), Hyderabad, India, 20<sup>th</sup> - 25<sup>th</sup> January, 1997.
- **Computer Applications and Information Management**, National Institute of Rural Development (Govt. of India), Hyderabad, India, 29<sup>th</sup> April - 10<sup>th</sup> May, 1996.
- **Mineral Exploration & Prospecting**, Department of Geology & Mining, Govt. Of Tamilnadu State, India, February 1989.

#### 17. Seminars/conferences/ science programs conducted: (More than 10)

- National Webinar on” **Recent Advances in Instrumental Analytical techniques: Challenges, Solutions and Trends in Geochemical and Environmental Studies**” 18<sup>th</sup> June 2020
- National Seminar on "**Development and Sustainability of Earth Resources and Environment (DSERE 2011)**", 12-13 March 2011
- Conducted various events of National Earth day, National Science Day, Earth Science Olympiad 2012 and 2016
- Awareness programs to students, scientists, Prisoners and farmers under Technopreneur Promotion Programme (TePP) at CENTRAL JAIL, CIEF-KKD, ANUR-RJY, 2009 – 2012.

#### 18. List of Publications (17)

- 1) Sunanda Nagabathula and Srinivasa Rao Y (2022): Accuracy improvement technique for topographical and stream network extraction from DEM using GIS: A case study, Journal of ISRS, Springer publications (In communication)
- 2) Rajababu T, Reddy PHP and Srinivasarao Y (2022): Identification of fresh groundwater areas in the central Godavari Delta region, Andhra Pradesh, India - an integrated approach, Current Science (A fortnightly Journal of Research) 122(9):1051-1057, ISSN 0011-3891. (IF: 1.102)

- 3) Durga Prasad, A., Falguni Bhattacharya, Gaurav Chauhan, Balaji, D., M.G. Thakkar, MG., Srinivasa Rao, Y., (2021): "Late-Quaternary Miliolite (biogenic carbonate) deposits and their implications towards sea-level fluctuations and climatic variabilities" *Journal of Earth Surface Processes and Landforms* (Published: 15Jan2021), Wiley publishers.(IF: 3.694)
- 4) G. Tamma Rao, Y. Srinivasa Rao, Ratnakar Dhakate, VVS Gurunadha Rao, J. Mahesh M.D. Prasad and L.Surinaidu (2014): Hydrogeochemical assessment of groundwater in alluvial aquifer region, Jalandhar District, Punjab, India, **Environmental Earth Sciences Journal**, Springer - DOI: 10.1007/s12665-014-3973-3 (Dec 2014) (IF: 1.572)
- 5) B.Sekhar, Sk. Muntaz Begum, Y. Srinivasa Rao, Tirumala Rao, MC Rao, RVSSNR Kumar (2015): Applications of Transition metal ions doped PVA-capped CdSe Nanopolymers, International Conference on Science and Engineering of Materials for future needs (ICSEMF-2015), ISBN 978-1-329-77555-8. 284-287pp
- 6) G. Tamma Rao, V. V. S. Gurunadha Rao, Y. Srinivasa Rao, G. Ramesh (2013): Study of hydrogeochemical processes of the groundwater in Ghatprabha river sub-basin, Bagalkot District, Karnataka, India, **Arbian Journal of Geosciences**, DOI:10.1007/s12517-012-0535-4, Springer verlag, Vol. 6(7): 2447-2459 (IF:1.224)
- 7) Y. Srinivasa Rao (2011): Editor of this issue: Development and Sustainability of Earth resources and Environment (DSERE-2011), **International Journal of Earth Sciences and Engineering**, Vol. 4 (8) SPL, Dec. 2011 ISSN 0974-5904. (IF: 0.042)
- 8) Y. Srinivasa Rao (2008) "Identification of Influencing Factors for Groundwater Quality Variation-Using Multivariate Analysis" **Journal of Environmental Geology, USA, Vol. 55(1): 9-12**, DOI:10.1007/s00254-007-0958-5, (IF. 1.026)
- 9) Y. Srinivasa Rao (2007): "Groundwater quality suitable zones identification – application of GIS, Chittoor area, A.P., India" **Journal of Environmental Geology, USA, Vol 53 (1): 200-210**. Cite as: Yammani, S. *Environ Geol* (2007) 53: 201. <https://doi.org/10.1007/s00254-006-0634-1> (IF. 1.026)
- 10) Y. Srinivasa Rao, D.K. Jugran (2003): "Delineation of groundwater potential zones and Suitable zones of Groundwater quality for domestic purpose -Using Remote Sensing and GIS", **Hydrological Sciences Journal**, UK, Vol. 48(5):821-834. <https://doi.org/10.1623/hysj.48.5.821.51452> (IF: 1.447)
- 11) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (2000): "Groundwater targeting in Hard rock terrain using fracture pattern modeling through Remote Sensing Application", **Hydrogeology Journal**, USA, Vol. 8 (5), 494-502. <https://doi.org/10.1007/s100400000090> (IF: 1.326)
- 12) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (1997): "Hydrogeomorphological studies in Niva river basin, Chittoor District, Andhra Pradesh, India", **Journal of the Indian Society of Remote Sensing (Photonirvachak)** India, Vol.25 (3), 187-194. <https://doi.org/10.1007/BF03024220> (IF: 0.08)
- 13) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (1997): "Groundwater quality in the Niva river basin, Chittoor District, Andhra Pradesh, India", **Journal of Environmental Geology, USA, Vol.32 (1), 56-63**. <https://doi.org/10.1007/s002540050193> (IF: 1.026)
- 14) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (1995): "Morphometric Analysis of Niva river basin, Chittoor District, Andhra Pradesh", **Journal of National Geographer**, Ahmedabad, India, Vol.XXX(1), 15-24.
- 15) T. V. K.Reddy, Y.Srinivasa Rao, P.T.Nayudu (1994): "Water quality Indices of Niva river, Chittoor District, Andhra Pradesh, India", **Journal of Encology**, India, Vol.9 (5), 4-8.
- 16) T. V.K.Reddy, Y.Srinivasa Rao, P.T.Nayudu (1993): "Integrated Deformation Model to locate Ground Water potential zones using Remote Sensing studies in the Niva River basin, Chittoor District, Andhra Pradesh", **Memoirs of the XXIVth Congress of International Association of Hydrogeologists**, Oslo, Norway, 655-661.
- 17) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (1993): "Impact of Industrial effluents on Ground water - A case study around Chittoor Town, Chittoor District, Andhra Pradesh", **Fresenius Environmental Bulletin**, Switzerland", Vol.2 (4), 179-184. (IF: 0.716)

#### 19. Papers published in Proceedings (5)

- 1) B. Sekhar, Sk. Muntaz Begum, **Y. Srinivasa Rao**, Tirumala Rao, MCRao, RVSSNR Kumar (2015): Applications of Transition metal ions doped PVA-capped CdSe Nanopolymers, International Conference on Science and Engineering of Materials for future needs (ICSEMF-2015), ISBN 978-1-329-77555-8 (e-book).
- 2) **Y. Srinivasa Rao** (2004), AV Chandrasekhar, YP Reddy, PS Rao, RVSSNR Kumar and J Yamanchi (2004): Spectral studies of natural incrustation material grown in water pipe lines, Rayalaseema

region, A.P., India”, Asia-Pacific EPR/ESR symposium (APES `04), IISc, Bangalore, India, November 22-25, 2004

- 3) **Y. Srinivasa Rao** (2003): “An Integrated Approach Using Remote Sensing application For Identification and Management of Groundwater Potential Zones, Gargeya Vanka Basin, Chittoor District, A.P.”, National symposium of ISPRS WG VII/3 workshop on Integrated Monitoring systems, Thiruvananthapuram, India, during 9-12 December, 2003.
- 4) **Y. Srinivasa Rao** (2003): "Analysis of fractures for groundwater identification & its management: an integrated approach using RS & GIS" Proceedings of international conference on "Groundwater in fractured rocks" sept 15-19, 2003, Prague, Czech Republic, Eds: Jioe Krasnu, Zbynak Hrkal & Jioe Bruthans, UNESCO series on groundwater No. 7 (2003)-ISBN-92-9220-002-X, 440PP.
- 5) **Y. Srinivasa Rao, D. K. Jugran** (2001): "Application of GIS in delineation of Ground water potential zone in Chittoor Area, A.P., India, Proceedings of **ISRS-2001** Symposium held at Ahmedabad, India, during 11<sup>th</sup> –13<sup>th</sup> December, 2001.

## **20. Papers presented/Attended at Seminars/conferences:**

- National seminar “Earth A Bounty Planet”, held at Sri Venkateswara University, Tirupati, during 13<sup>th</sup>-14<sup>th</sup> March, 2009.
- GIS Training program on Introduction to ArcGIS-I, during Jan23-24, 2009
- International conference “IISc Centenary conference” held at IISc, Bangalore, during 13<sup>th</sup>–16<sup>th</sup> December, 2008
- AP Science Congress “Emerging trends in Science & Technology”, held at Osmania University, Hyderabad, during 14<sup>th</sup>-16<sup>th</sup> November, 2008,
- National seminar on “Advances in Hydrosiences” 10<sup>th</sup> – 11<sup>th</sup> March, 2008, Sri Venkateswara University, Tirupati
- International workshop on “Weather modification & cloud seeding technologies for Rain water enhancement 2005” pre-workshop, 7<sup>th</sup> January 2005, JNT University, Hyderabad, India.
- Asia-Pacific EPR/ESR symposium (APES `04), Indian Institute of Science, Bangalore, India, November 22-25, 2004
- National symposium of ISPRS WG VII/3 workshop on Integrated Monitoring systems, Thiruvananthapuram, India, during 9-12 December, 2003.
- International conference on "Groundwater in fractured Rocks" September 15-19, 2003, Prague, Czech Republic.
- ISPRS TC-VII Symposium "Resource and Environmental Monitoring" held at Hyderabad, India during 3-6th December 2002.
- National symposium on, "Advances in Remote sensing technology with special emphasis on High Resolution imagery (ISRS-2001 symposium), held at Ahmedabad, India, during 11th -13th December, 2001.
- National workshop on, "Water harvesting with special reference to Artificial recharge", held at Hyderabad, India, during 9th - 10th October, 2001.
- National symposium on, "Recent Developments in environmental Geosciences", held at Tirupati, India, during 9th - 10th October 1995.

## **21. Documentary in Youtube**

- In search of a river – a documentary on Errakaluva, West Godavari district, Andhra Pradesh: <https://www.youtube.com/watch?v=wEczF4mjZzs>

## **22. Resource person at:**

- Invited as a Resource person for a Refresher Course in Earth System and Exo-Meteorology, UGC-HRDC, Osmania University, Hyderabad on 26.08.2020 (Lr. No. RPL/HRDC/OU/2020, dated 20.08.2020, Prof. B. Srinagesh, Director) - Online lecture: 3.45pm-5.30pm
- Invited as a resource person for National workshop on Mathematical Modelling in Geographical Information Systems Applications, 28-30 March, 2011, from Prof. T. Sudha, VS University, Nellore
- Invited as a resource person for a National workshop on Aquifer Mapping and Management (Tier-II), 3-7th Feb, 2014 to talk on RS and GIS applications in aquifer mapping and management with case

studies, from G. Sudarshan, Regional Director, SR-Hyd, Ir. No. T/11(2)/CGWB/SR/RGI Trainings/2013-14, dated 13.01.2014

- Invited as a resource person for a National Training program on Geospatial technologies and applications, 6-7th Feb, 2014, from Prof. T. Sudha, SPMVV, Tirupati to provide training on RS & GIS applications

22. Links in Academic websites

- ORCID ID: 0000-0001-7844-0223
- SCOPUS ID: 3148248
- RESEARCHER ID: E-9400-2011
- Vidwan id: 45059