

## BIODATA OF Dr. J. RJAGOPALA RAO

- 1 **Name** JONNALAGADDA RAJAGOPALA RAO
- 2 **Date of Birth** November 15, 1943
- 3 **Marital Status** Married, 2 children
- 4 **Qualifications**

B.Sc. Mathematics, Physics & Chemistry I Class (1962) Government Arts College Rajahmundry (Andhra University)  
M.Sc. Inorganic Chemistry I Class (1964) Andhra University, Waltair, Andhra Pradesh, India  
Ph.D. "Precipitation of chromium from homogeneous solution" (1972) Andhra University, Waltair, Andhra Pradesh, India
- 5 **Service** Joined the Regional Research laboratory (CSIR), Bhubaneswar, Orissa as Senior Scientific Assistant on December 30, 1968 to carry out scientific research and rose to the position of Deputy Director on November 8, 1992 and continued in the same position till superannuation on November 30, 2003
- 6 **Research Experience** Since 1964 in India and abroad
- 7 **Areas of Research:**
  - (i) Homogeneous precipitation
  - (ii) Development of catalysts
  - (iii) Waste utilization
  - (iv) Pollution control
  - (v) Preparation of industrial inorganic chemicals
  - (vi) Thermal analysis
- 8 **Countries Visited:**
  - (i) Institut für Technische Chemie, Technical University, Berlin, Germany; 19 months (1974-75)
  - (ii) R & D Institutions at Baku, Novosibirsk and Moscow, USSR; 3 weeks (1988)
  - (iii) USA; on a personal trip after retirement for over 5 months (2004)
- 9 **Present Status** Deputy Director (Retd)
- 10 **Residential Address** Sri Vani Girija Nilayam, 63 Saket Phase I Kapra ECIL Post Hyderabad 500 062 AP India  
Tel: (040) 27144697  
Email: [rrjonnala@yahoo.com](mailto:rrjonnala@yahoo.com)
- 11 **Research Publications & Conference Papers** Above 60
- 12 **Patents** 9
- 13 **Sponsored Projects Completed** 4
- 14 **Membership, Honours, Awards etc**

- (i) Awarded the Atomic Energy Commission's Scholarship during M.Sc. final year (1963-64)
- (ii) Held Demonstrator post followed by the award of the GOI scholarship and the CSIR JRF during Ph.D (1964-68)
- (iii) Awarded German Academic Exchange Service (DAAD) for 19 months to carry out advanced research in the then W. Germany during 1973-74. This covered a 4-month German language course also.
- (iv) Life Member of (a) Indian Society of Analytical Scientists, (b) Indian Thermal Analysis Society, (c) Indian Council of Chemists, (d) Indian Chemical Society, (e) The Catalysis Society of India, (f) Indian Institute of Mineral Engineers, (g) Indian Institute of Chemical Engineers and (h) Indian Institute of Metals (i) CSIR Pensioner's Welfare Association

15. **Other Positions:**

- (i) Research guide for Ph.D. of Utkal University
- (ii) Examiner for Ph.D thesis of Nagpur and Osmania Universities
- (iii) Examiner for M.Sc., Andhra university
- (iv) Recognised German-English translator for specified subjects and the name included in the Directory of Foreign and Technical Translators in India compiled in 1989 by the Indian scientific Translators association, New Delhi
- (v) Editor, RRL-Bulletin, a house journal of the Regional Research Laboratory, Bhubaneswar
- (vi) One of the editors in a 2-member team for technical video films on the Gahirmata Project and the Sandoor Manganese ore. Provided script to both these films and also a film on metals from manganese nodules.

16 **Any Other Matter** Chose the combined pen name Vasundhara (along with wife Ramalaksmi) for literary contributions to Telugu language and received number of awards from magazines as well as institutes. Some of the stories were adopted for silver screen and resulted in hit feature films.

## LIST OF PUBLICATIONS AND CONFERENCE PAPERS

1. Simultaneous gravimetric determination of aluminium and chromium in chrome ores.  
Anal. Chim. Acta, 53 (1971) 189.  
J. Rajgopala Rao and B.R. Sant.
2. Precipitation of lead sulphate from homogeneous solution through cation replacement by iron.  
Anal. Chim. Acta, 59 (1972) 481.  
A. Suryanarayana, J. Rajgopala Rao and B.R. Sant.
3. Precipitation of chromium oxinate from homogeneous solution.  
Z. anal. Chem., 259 (1972) 286.  
J. Rajgopala Rao and M.N. Sastri
4. Study of chromium 2-methyl oxinate precipitated from homogeneous solution.  
Indian J. Chem., 11(1973) 377.  
J. Rajagopala Rao and M.N. Sastri.
5. Homogeneous precipitation of lead sulphate from lead(II) and EDTA complex by displacement with copper(II) and nickel(II)  
Z. anal. Chem., 265 (1973) 128.  
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6. Methods of preparation of shift conversion catalysts.  
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J. Rajagopala Rao and B. R. sant.
7. Precipitation of lead as lead sulphate by destructive oxidation of EDTA.  
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J. Rajagopala Rao, A. Suryanarayana and B.R.Sant.
8. A rapid method for the determination of chromium and iron in chrome ores.  
Indian J. Tech., 13 (1975) 575.  
J. Raiagopala Rao and D.Pradhan.
9. Investigation of the catalytic activity of iron oxide-chromium oxide catalysts precipitated from homogeneous solution for water gas conversion.  
Chem. Ing. Tech., 46 (1976) 944.  
Y. Louisi, J. Raiagopala Rao and M. Ralek.
10. Investigation of the catalytic activity of iron oxide-chromium oxide catalysts precipitated from homogeneous solution.  
Research Report, Jan. 1975. (Ger), Institut für Technische Chemie der Techniscen Universität Berlin, Berlin, Germany  
Y. Louisi and J. Raiagopala Rao.
11. Homogeneous precipitation - a new technique in catalyst preparation.  
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J. Rajagopala Rao and B. R. Sant.
12. Development of Catalysts I.  
Research Report (Confidential for IPCL., Baroda, India), Sept. 1978.  
J.Rajagopala Rao, J. Prasad and B. R. Sant.
13. Production of precipitated calcium carbonate.  
Indian Chemical Manuf., 21(1983) 43.  
A. Suryanarayana, J. Rajagopala Rao, K.M. Parida and B.R. Sant.
14. Thermal decomposition characteristics of chromium oxide gels prepared by

- homogeneous precipitation.  
Proc. 4<sup>th</sup> Natl. Symp. Thermal Analysis, Sec.8 (1983) II 30.  
J. Rajagopala Rao and K.M. Parida.
15. Homogeneous precipitation of molybdenum oxinate and its estimation in a multicomponent system.  
Bunseki Kagaku, 33(11) (1984) 481-5.  
J.Rajagopala Rao, K.M. Parida, R.S. Thakur and S.B. Rao.
  16. Preparation, characterisation and catalytic behaviour of bismuth molybdate catalysts.  
J. Sci. Ind. Res., 43(10) (1984) 542-69.  
B. R. Sant, S.B. Rao, J. Rajagopala Rao, R.S. Thakur and K.M. Parida.
  17. Development of Catalysts II.  
Research Report (Confidential for IPCL., Baroda, India), Sept. 1984.  
J. Rajagopala Rao and B. R. Sant.
  18. Developing new methods for the preparation of catalyst carriers.  
3rd Natl. Workshop on Catalysts and Catalysts in Chemical Industries, RRL., Bhubaneswar, Orissa, India, Feb. 10-12 (1986).  
J. Rajagopala Rao, K.M. Parida, R.S. Thakur and S.B. Rao.
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J. Electrochem. Soc. India, 35(2) (1986) 141-2.  
R.S. Thakur, J. Rajagopala Rao, K.M. Parida and S.B. Rao.
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Proc. 2nd Indo-Soviet Sem. Recent Advances in Catalysis and Catalytic Reaction Engineering, RRL., Hyderabad, Andhra Pradesh, India, Nov. 25, (1986) 367-74.  
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Proc. 2nd Indo-Soviet Sem. Recent Advances in Catalysis and Catalytic Reaction Engineering, RRL., Hyderabad, Andhra Pradesh, India, Nov. 25, (1986) 527-33.  
J Rajagopala Rao, K.M. Parida, R.S. Thakur and S.B. Rao.
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- vanadium sludge of alumina industry.  
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9<sup>th</sup> Natl. Symp. Catalysis, Madras, India, Oct. 1988.  
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3<sup>rd</sup> Indo-Soviet Seminar on Catalysis and Advances in Chemical Technology, Baku, USSR, 1988.  
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11<sup>th</sup> National Symposium on Catalysis, IICT, Hyderabad, India, 1992.  
J. Rajagopala Rao, K.M. Parida, N.N. Das and S.B. Rao.
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J. Rajagopala Rao, G.V. Rao and K.K. Rao.
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R. Nayak, J. Rajagopala Rao and A. Suryanarayana
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