

Anand P. Singh

DR. A. P. SINGH

CSIR-NGRI, HYDERABAD, INDIA

<http://scholar.google.com/citations?hl=en&user=SwtHNhQAAAAJ>

NGRI RESEARCH GROUP:

HYDROCARBONS - GRAVITY AND MAGNETIC STUDIES

FIELD OF SPECIALIZATION:

Application of Gravity/Magnetic method for hydrocarbon exploration, natural hazard assessment and geodynamic studies.

EDUCATION:

2003 Ph.D. Geophysics, Osmania University, Hyderabad, India
1985 M.Sc. (Tech) Applied Geophysics, Banaras Hindu University, Varanasi, India
1982 B.Sc.(Hons) Physics, Chemistry, Maths, Banaras Hindu University, Varanasi, India

PROFESSIONAL EXPERIENCE:

11 April 2008 **Senior Principal Scientist**, National Geophysical Research Institute, Hyderabad,
11 April 2003 **Scientist E-II**, National Geophysical research Institute, Hyderabad
11 April 1999 **Scientist E-I**, National Geophysical research Institute, Hyderabad
11 April 1994 **Scientist C**, National Geophysical research Institute, Hyderabad
11 April 1989 **Scientist B**, National Geophysical research Institute, Hyderabad
15 Jan 1989 **CSIR-Senior Research Fellow**, National Geophysical research Institute, Hyderabad
15 Jan 1987 **CSIR-Junior Research Fellow**, National Geophysical research Institute, Hyderabad

VISITING POSITIONS:

June 1993 - April 1995 DAAD Fellow, Department of Geophysics, Christian Albrecht's University at Kiel, Germany
August - September 2004 DAAD Revisit Fellow, Department of Geosciences, Hamburg University, Germany.

TEACHING EXPERIENCE:

Teaching since July, 2011 for AcSIR.

SERVICE:

Co-Convener, NGRI Golden Jubilee Celebrations and IAGR Annual Convention-2011, held at CSIR-National Geophysical Research Institute, Hyderabad, during August 26-28, 2011.

Anand P. Singh

Co-Editor, Abstract Volume of 8th International Symposium on Gondwana to Asia "Super Continent Dynamics: India and Gondwana", International Association of Gondwana Research Conference Series No 12.

Co-Editor, Geological Excursion Guide "Hyderabad to Nagarjuna Sagar", International Association of Gondwana Research Conference Series No 13.

MEMBERSHIP/FELLOWSHIP IN ACADEMIES/SOCIETIES/PROFESSIONAL BODIES

Fellow, Geological Society of India

Associate Fellow, AP Akademi of Sciences

Life Member, Indian Geophysical Union (IGU)

Life Member, Society of Exploration Geophysicists (SEG)

Life Member, Society of Petroleum Geophysicists (SPG)

Current NGRI Committees:

Member, Library Committee [Two years from January 2012].

Past NGRI Committees:

Member, Publications & Library Committee [from July, 2011]

Member, "Editorial Board" for the NGRI Website [April, 2010]

Member, Works & Engineering Services Committee [Two years from October 2009]

Member, Works & Engineering Services Committee [Two years from July 2007]

Member, Cyber Security Committee [November, 2006]

Member, Local Grievance Committee [January, 2006]

Member, Management Council [Two years from July 2003]

Member, Library Committee [from May, 2001]

AWARDS AND HONORS:

A.P. Young Scientist Award conferred by the A. P. Akademi of Sciences for the Year 1995 in the field of EARTH SCIENCES

PH.D. ADVISOR:

-NIL-

SCIENTISTS WITH WHOM I HAVE COLLABORATED (OUTSIDE NGRI):

Current

. *Hermann Zeyen*, Universite de Paris-Sud, France.

K.K.K. Singh, Central Institute of Mining and Fuel Research, Dhanbad, India.

Past

Prof. Rolf Meissner, CAU zu Kiel, Germany.

Prof. G. Ali Dehghani, University of Hamburg, Germany.

Prof. R. Barzaghi, Politecnico di Milano-DIAR, Milano, Italy

Dr. D. Carrion, Politecnico di Milano-DIAR, Milano, Italy

Naresh Kochhar, Punjab University, India.

NGRI Collaborators (present and past):

J.G. Negi, D.C. Mishra, P.K. Agrawal, V. Babu Rao, Y.J. Bhaskar Rao, T.R.K. Chetty, D. Sarkar, O.P. Pandey, D.M. Mall, S.B. Gupta, B. Singh, M.R.K. Prabhakar Rao, D.V. Chandrasekhar, E.V.S.S.K. Babu, Ramesh Khanna, M.B.S.V. Rao, G.K. Hudlur, G. Laxman, D.Ch.V. Raju, V. Vijaya Kumar, V.M. Tiwari, Kusumita Arora, R.S. Rajesh, Niraj Kumar, B. Nageswara Rao, Chandrakala, Jyoti Singh.

PUBLICATIONS

Gravity Map of India

1. RGMI, 2006. Gravity Map Series of India - 2006. A joint publication of GSI and NGRI, Hyderabad.

Book Chapters

1. **Singh A.P.** and Mishra D.C. (2003) Evolution of Proterozoic Cuddapah Basin: A reappraisal of gravity data. In: Rajeeva Guhe, Pradeep Thakur and R. Sridhar Rao (Eds.) "Recent Researches on the Proterozoic Basins of India", Raipur, Chattisgarh. Pp.35-46.

Review or non-technical Article

1. **Singh A.P.** (1998) Mahila Aarakshan-Aawasyakata? Vasundhara (in Hindi), 4: 33-34.

Peer-reviewed Journal Publications:

International Journals

2011

1. Bhaskar Rao, Y.J.B., **Singh, A.P.** and Babu, E.V.S.S.K. (2011) Conference report of IAGR 2011 Annual Convention and 8th International Symposium on Gondwana to Asia - "Supercontinent dynamics: India and Gondwana", *Gondwana Research* 21, 308-309. Doi: 10.1016/j.gr.2011.10.001.
2. Niraj Kumar, **Singh, A.P.** and Singh, B. (2011) Insights into the crustal structure and geodynamic evolution of the Southern Granulite Terrain of India from isostatic considerations. *Pure. Appl. Geophys.* 168(10): 1781–1798, DOI 10.1007/s00024-010-0210-1.
3. Nageswara Rao, B., Niraj Kumar, **Singh, A.P.**, Prabhakar Rao, M.R.K., Mall, D.M. and Singh, B. (2011) Crustal density Structure across the Central Indian Shear Zone from Gravity data. *J. Asian Earth Sciences* 42(3): 341-353.
4. **Singh, A.P.**, Niraj Kumar, Prabhakar Rao, M.R.K. and Singh, B. (2011) Crustal configuration beneath the Palghat Gap (South India) and Mantle-Crust Connections. *Advances in Geosciences (Solid Earth (SE))* 26: 117-130.

2009

5. Niraj Kumar, **Singh, A.P.** and Singh, B. (2009) Gravity signature, derived crustal structure and tectonics of Achankovil Shear Zone, South India. *Gondwana Research*, 16: 45-55.
6. Niraj Kumar, **Singh, A.P.** and Singh, B. (2009) Structural fabric of the southern Indian shield as defined by gravity trends. *J. Asian Earth Sciences* 34: 577-585.
7. Carrion, D., Kumar, N., Barzaghi, R., **Singh, A.P.** and Singh, B. (2009) Gravity and geoid estimate in South India and their comparison with EGM2008. *Newton's Bulletin*, 4: 275-283.
8. Niraj Kumar, **Singh, A.P.** and Singh, B. (2009) Structural fabric of the southern Indian shield as defined by gravity trends. *J. Asian Earth Sciences*, 34: 577-585.

2006

9. **Singh, A.P.**, Niraj Kumar and B. Singh (2006) Nature of the crust along Kuppam-Palani geotranssect (South India) from gravity studies: Implications for Precambrian continental collision and delamination. *Gondwana Research*, 10(1-2): 41-47.

2004

10. **Singh A.P.**, Mishra D.C., Gupta S.B. and Prabhakar Rao M.R.K. (2004) Crustal structure and domain tectonics of the Dharwar craton (India): insight from new gravity data. *J. Asian Earth Sci.*, 23(1): 141-152.

2002

11. **Singh A.P.** and Mishra D.C. (2002) Tectonosedimentary evolution of Cuddapah Basin and Eastern Ghats Mobile Belt (India) as Proterozoic collision: gravity, seismic and geodynamic constraints. *J. Geodynamics*, 33: 249-267.

1999

12. **Singh A.P.** (1999) The deep crustal accretion beneath the Laxmi Ridge in the northeastern Arabian Sea: the plume model again. *J. Geodynamics*, 27(4-5): 609-622.

1998

13. **Singh A.P.** and Mall D.M. (1998) Crustal accretion beneath the Koyna coastal region (India) and Late Cretaceous geodynamics. *Tectonophysics*, 290: 285-297.
14. **Singh A.P.** (1998) 3-D structure and geodynamic evolution of accreted igneous layer in the Narmada-Tapti region (India). *J. Geodynamics*, 25: 129-141.

1995

15. **Singh A.P.** and Meissner R. (1995) Crustal configuration of the Narmada-Tapti region (India) from gravity studies. *J. Geodynamics*, 20: 111-127.

1993

16. Negi J.G., Agrawal P.K., Pandey O.P. and **Singh A.P.** (1993) A possible K-T boundary bolide impact site offshore near Bombay and triggering of rapid Deccan volcanism. *Phys. Earth Planet. Inter.*, 76: 189-197.

1992

17. Negi J.G., Agrawal P.K., **Singh A.P.** and Pandey O.P. (1992) Bombay gravity high and eruption of Deccan flood basalts (India) from a shallow secondary plume. *Tectonophysics*, 206: 341-350.

Indian Journals

2009

1. **Singh, A.P.**, Kochhar, N. and Niraj Kumar (2009) Gravity signatures and derived batholithic structure of Tusham granite pluton, Haryana, India and its relation to Delhi-Rohtak seismicity. *Indian Geol. Cong. Bull.*, 1(2): 62-68.

2005

2. Mall D.M., Singh A.P. and Sarkar D. (2005) Structure and seismotectonics of Satpura, Central India. *Current Science*, 88(10): 1621-1627.

2004

3. **Singh A.P.**, Niraj Kumar and Bijendra Singh (2004) Magmatic underplating beneath the Rajmahal traps: Gravity signatures and derived 3-D configuration. *Proc. Indian Acad. Sci. (Earth Planet. Sci.)* [Presently J. Earth System Science] 113 (4): 759-769.

4. Niraj Kumar, **Singh A.P.**, Gupta S.B. and Mishra D.C. (2004) Gravity signature, crustal architecture and collision tectonics of Eastern Ghats Mobile Belt. *J. Indian Geophys. Union*, 8: 97-106.
5. **Singh A.P.**, Vijaya Kumar V. and Mishra D.C. (2004) Subsurface geometry of Hyderabad granite pluton from gravity and magnetic anomalies and its role in the seismicity around Hyderabad. *Current Science*, 86(4): 580-586.

2003

6. Singh A.P., Mishra D.C., Vijaya Kumar V. and Rao M.B.S.V. (2003) Gravity and magnetic signatures and crustal architecture along Kuppam-Palani geotranssect South India. *Mem. Geol. Soc. India*, 50: 139-163.
7. Singh A.P., Mishra D.C. and Laxman G. (2003) Apparent density mapping and 3D gravity inversion of Dharwar crustal province. *J. Indian Geophys. Union*, 7(1): 1-9.

2002

8. Singh A.P. (2002) Impact of Deccan volcanism on deep crustal structure along western part of Indian mainland and adjoining Arabian Sea. *Current Science*, 82(3): 316-325.

2001

9. Mishra D.C., Singh B., Gupta S.B., Rao M.R.K.P., **Singh A.P.**, Chandrasekhar D.V., Hodlur G.K., Rao M.B.S.V., Tiwari V.M., Laxman G., Raju D.Ch.V., Vijaya Kumar V., Rajesh R.S., Babu Rao V. and Chetty T.R.K. (2001) Major lineaments and gravity-magnetic trends in Saurashtra, India. *Current Science*, 80: 1059-1066.

2000

10. Singh A.P. (2000) Deep crustal structure of the Narmada-Tapti region. *Visakha Science J.*, 4(1): 21-36.

1998

11. Singh A.P. (1998) Narmada-Tapti parikshetra ke bhuparpati ki talhati mein Deccan lava ki abhivridhi: ek bhuhhautiki vishleshan. *J.S.I.R.* (in Hindi), 6(2): 81-87.

1992

12. Negi J.G., Singh A.P., Pandey O.P. and Agrawal P.K. (1992) Sedimentary thickness mapping by 3-D gravity inversion and relevance of geothermal field to Hydrocarbon maturation in the northern Cambay basin (India). *Indian J. Petrol. Geol.*, 1: 102-109.

1989

13. Mishra D.C., Singh A.P. and Rao M.B.S.V. (1989) Idukki earthquake and the associated tectonics from gravity study. *J. Geol. Soc. India*, 34: 147-151.

Miscellaneous Publications

1. **Singh A.P.** (2002) Hot springs show signs of lava from mantle plume. Nature News India (December Issue), Pp 9.
2. Mishra D.C., Gupta S.B., Rao M.R.K.P., **Singh A.P.**, Chandrasekhar D.V., Rao M.B.S.V., Vijaya Kumar V. and Ravi Kumar S. (1999) Gravity-magnetic studies along the Kuppam-Palani geotranssect corridor. DCS-DST News Letter, 9(2): 11-12.

Expanded Abstracts

2004

1. Mishra, D.C., Singh, B., Gupta, S.B., Rao, M.R.K.P., *Singh, A.P.*, Chandrasekhar, D.V., Rao, M.B.S.V., Raju, D.Ch.V., Vijay Kumar, V. and Tiwari, V.M. (2004) Gravity studies over Saurashtra peninsula, India-Some new insight. In: Proceeding of 5th Conference & Exposition of Society of Petroleum Geophysicists, Hyderabad. Pp. 75-78.
2. Niraj Kumar, *Singh, A.P.* and Singh, B. (2004) Gravity signature of accreted igneous layer beneath the eastern continental margin of India and adjoining Bengal Basin. In: Proceeding of 5th Conference & Exposition of Society of Petroleum Geophysicists, Hyderabad. Pp. 948-952.

1993

3. Pandey O.P., Agrawal P.K., *Singh A.P.* and Negi J.G. (1993) Modelling of gravity field over the Laxmi Ridge and lithospheres structure. In: Proc. XXIX IGU Seminar on "Perspectives and Prospects in Geosciences towards the New Industrial Policy", NGRI, Hyderabad. Pp 53-57.

1991

4. Singh A.P., Pandey O.P., Agrawal P.K. and Negi J.G. (1991) Anomalous crustal and lithospheric structure beneath Cambay basin, India. In: Proceedings of 1st AEG International Seminar and Exhibition on "Exploration Geophysics in Nineteen Nineties", Hyderabad. Pp. 304-312.

Abstract

1. Niraj Kumar, Zeyen, H., **Singh, A.P.** and Singh, B. (2011) Lithospheric structure of southern Indian shield: integrated modelling of topography, gravity, geoid and heat flow data. In: IAGR Annual Convention-2011 & 8th International Symposium Gondwana to Asia on "Supercontinent Dynamics: India and Gondwana", held at NGRI, Hyderabad during 26-28 August.

2. **Singh, A.P.**, Niraj Kumar, Prabhakar Rao, M.R.K. and Singh, B. (2010) Crustal configuration beneath the Palghat Gap (South India) and Mantle-Crust Connections. In: AOGS 2010, held at Hyderabad during 5-9 July.
3. Niraj Kumar, **A.P. Singh** and B. Singh (2009) Structure and tectonics of Southern Granulite Terrane: Insight from gravity and magnetic data. In: INSA-JSPS two days workshop on Southern Granulite Terrain held at NGRI, Hyderabad during 10-11 August.
4. B. Nageswara Rao, D.A. Bhaskara Rao, Niraj Kumar, **A.P. Singh**, M.R.K.Prabhakar Rao and B. Singh (2008) Gravity-magnetic signatures of Sonakhan Schist belt, Raipur District, Chattishgarh. In: 45th IGU annual convention and meeting on “Seismic Hazard and Crustal Earthquakes: Indian Scenario” held at BHU, Varanasi during 5-7 November.
5. **AP Singh**, Niraj Kumar and B. Singh, (2008) Insights into the crustal structure and geodynamic evolution of the Southern Geranulite Terrain from isostatic considerations. In: 45th IGU annual convention and meeting on “Seismic Hazard and Crustal Earthquakes: Indian Scenario” held at BHU, Varanasi during 5-7 November.
6. Niraj kumar, **AP Singh** and B Singh (2008) Gravity-Magnetic signature, derived crustal structure and tectonics of Achankovil shear zone, South India. In: 45th IGU annual convention and meeting on “Seismic Hazard and Crustal Earthquakes: Indian Scenario” held at BHU, Varanasi during 5-7 November.
7. Singh, B., Rao, MRKP, **Singh AP**, Chandrasekhar, DV, Rao, MBSV, Vijaya Kumar, V., Raju D Ch V, Tiwari, V.M., Arora K., Prajapati, S.K., (2007) Exploration of subtrappean Mesozoic sedimentary basins in Deccan Syncline, Central India: Inferences from gravity studies. In: PETROTECH, New Delhi, 15-19 January.
8. Singh, B., Rao, MRKP, **Singh AP**, Chandrasekhar, DV, Rao, MBSV, Vijaya Kumar, V., Raju D Ch V, Tiwari, V.M., Arora K., Chandrasekhar, T., Prajapati, S.K., (2006) Gravity studies over the volcanic cover regions of Saurashtra Peninsula and central India: some inferences about regional tectonics. In: 3rd AEG International Seminar and Exhibition on Exploration Geophysics. Hyderabad, 6-12 Nov.
9. **Singh A.P.**, (2005) Gravity signature of Precambrian continental collision and delamination of Southern Granulite Terrane (India). In: International Conference on “Precambrian Continental Growth & Tectonism (PCGT2005)”, Dept. of Geology, Institute of Earth Sciences, Bundelkhand University, Jhansi., 22-24 February.
10. **Singh A.P.**, Niraj Kumar and Singh, B. (2004) Gravity signature of Rajmahal traps (India). In: “Joint 1st AOGS Annual Meeting & APHW 2nd Conference 2004”, SINGAPORE. July 5-9.
11. **Singh A.P.** and Mishra D.C. (2004) An overview of gravity signatures of the Southern Granulite Terrain (India). In: International workshop and geological field excursion on “Tectonic evolution of the Precambrian Southern Granulite Terrain, Southern India and Gondwana correlations”, NGRI, Hyderabad. Feb. 18-25.
12. Niraj Kumar, **Singh A.P.**, Singh B. (2004) Gravity signature of accreted igneous layer beneath the eastern continental margin of India and adjoining Bengal Basin. In: 5th Conference &

- Exposition of Society of Petroleum Geophysicists on “Geophysics: Leveraging Technologies for E & P Business”, Hyderabad. Jan. 15-17.
13. Mishra D.C., Singh B., Gupta S.B., Rao M.R.K.P., **Singh A.P.**, Chandrasekhar D.V., Rao M.B.S.V., Tiwari V.M., Laxman G., Raju D.Ch.V., Vijaya Kumar V., Rajesh R.S., (2004) Gravity studies over Saurashtra Peninsula, India-Some New Insight. In: 5th Conference & Exposition of Society of Petroleum Geophysicists on “Geophysics: Leveraging Technologies for E & P Business”, Hyderabad. Jan. 15-17.
 14. Niraj Kumar, **Singh A.P.**, Gupta S.B. and Mishra D. C. (2003) Collision tectonics of the Eastern Ghats Mobile Belt: Gravity signature and derived crustal architecture. In: 40th IGU Annual convention meeting on “Recent Advances & Future Strategies in Geoscientific Exploration”, Chennai. December 16-18.
 15. **Singh A.P.** and Mishra D.C. (2003) Evolution of Southern Indian shield through Ancient Collision tectonics. In: CSIR Diamond Jubilee Seminar on “Frontiers of Geophysical Research”, N.G.R.I., Hyderabad. Sept. 10-11.
 16. Rao V.K., Mall D.M., Sharma S.R., **Singh A.P.**, Gahalaut V.K. and Raval U. (2003) Subduction and delamination related processes in Son-Narmada Geofracture (SNG) and Central Indian Suture zone (CIS) Indian shield. In: CSIR Diamond Jubilee Seminar on “Frontiers of Geophysical Research”, N.G.R.I., Hyderabad. Sept. 10-11.
 17. Niraj Kumar, **Singh A.P.**, Gupta S.B., Mishra D.C. (2003) Collision tectonics across Eastern Ghats mobile belt related to Bastar and Singhbhum cratons. In: CSIR Diamond Jubilee Workshop-V on “Gravity Method for Geodynamic Studies & Resource Explorations: New Trends and Innovations”, NGRI, Hyderabad. June 18-19.
 18. **Singh A.P.** (2003) Hyderabad granite pluton ki sanrachana aur asthaniya bhukampoen se sambandh (in Hindi). In: CSIR Diamond Jubilee Celebrations cum Seminar, NGRI, Hyderabad. April 25.
 19. **Singh A.P.** and Mishra D.C. (2002) Seismotectonics of Hyderabad granite pluton (India): An appraisal of New Gravity data. In: 4th ASC International Seminar on “Seismology, Earthquake Hazard Assessment and Risk Management”, Kathmandu, Nepal. Nov. 23-26.
 20. **Singh A.P.**, Mishra D.C. and Laxman G. (2002) Apparent density mapping and 3-D Moho configuration of Dharwar crustal province. In: 39th IGU Annual convention and Seminar on “Sustainability Science and Environmental Geophysics”, NEERI, Nagpur. Oct.4-6.
 21. **Singh A.P.**, Rao M.B.S.V., Chandrasekhar D.V., Vijaya Kumar V., Gupta S.B., and Mishra D.C. (2000) Gravity and magnetic anomalies along Kuppam-Palani geotransect over Southern Granulite Terrain, South India. In: DST meeting on “Deep Crustal Studies on Granulite Terranes of Southern India”, University of Mysore, Mysore. November 3-5.
 22. **Singh A.P.** (2000) Imprint of the Deccan plume head on lower crust along the west coast of India. In: DST sponsored workshop on “Plume Tectonics”, NGRI, Hyderabad. June 13-14.
 23. Rao V.K. and **Singh A.P.** (2000) Seismic and gravity work done by NGRI on Deccan Volcanic Province. In: Geol. Soc. America and Geol. Soc. India sponsored conference cum field excursion

- on “PENROSE – DECCAN 2000: RIFTED CONTINENTAL MARGINS”, IIT Mumbai. March 19-25.
24. **Singh A.P.** (1999) Impact of Deccan volcanism on deep crustal structure along western continental margin of India and adjoining Arabian Sea. In: A seminar on “Deccan Volcanism and K/T Boundary”, PRL, Ahmedabad. Nov. 25-26.
 25. Mishra D.C. and **Singh A.P.** (1998) Crustal structure along Kavali-Udipi profile as defined by gravity study. In: 35th Annual convention and seminar on “Continental margins of India-Evolution, Processes and Patents”, NIO, Goa. Nov. 18-20.
 26. **Singh A.P.** and Tiwari R.K. (1998) Fractal dimension of spatial disposition of the lineaments in South India. In: 35th Annual convention and seminar on “Continental margins of India-Evolution, Processes and Patents”, NIO, Goa. Nov. 18-20.
 27. **Singh A.P.** (1998) Deep crustal structure of the Narmada-Tapti region-What do we really know? In: AP Akademi of Sciences’ Young Scientists convention and Panel discussion on “Vision for 2020 in S & T”, IICT, Hyderabad. July 24-25.
 28. **Singh A. P.** and Mall D.M. (1996) Imprint of Deccan magmatism on deep crustal structure of Koyna coastal region. In: 33rd IGU annual convention and meeting on “Geophysical Instrumentation”, NGRI, Hyderabad. Dec. 16-20.
 29. Negi J.G., **Singh A.P.** and Khanna R. (1996) Entropy of Bouguer anomaly of India and Isostatic evolution. In: 2nd AEG International seminar and exhibition on “Geophysics Beyond 2000”, Hyderabad. Nov. 15-20.
 30. **Singh A.P.** and Meissner R. (1995) Structure and evolution of Narmada-Tapti region (India) deduced from seismic, gravity and heat flow studies. In: 20th General assembly of European Geophysical Society, Hamburg, Germany. April 3-7.
 31. **Singh A.P.** and Meissner R. (1995) Regional tectonic framework, structure and evolution of the Cambay basin (India). In: 55th Annual convention and seminar of Deutschen Geophysikalischen Gesellschaft, Hamburg, Germany. March 20-24.
 32. Pandey O.P., Agrawal P.K., **Singh A.P.** and Negi J.G. (1994) Lithospheric structure beneath Cambay graben and Bombay offshore region (India) and hydrocarbon maturation. In: 27th General assembly of IASPEI, Wellington, New Zealand. January 10-21.
 33. Agrawal P.K., **Singh A.P.**, Pandey O.P. and Negi J.G. (1993) Modelling of certain gravity structures near the western margin and implication for the origin of Deccan flood basalts. In: DST discussion on “Exercise of Modelling in Earth Sciences”, NGRI, Hyderabad. April 27-29.
 34. Pandey O.P., Negi J.G., Agrawal P.K. and **Singh A.P.** (1993) Geodynamic evolution of Deccan traps, volcano-extinction cycles and bimodal forcing. In: DST discussion on “Exercise of Modelling in Earth Sciences”, NGRI, Hyderabad. April 27-29.
 35. Agrawal P.K., Pandey O.P., Negi J.G. and **Singh A.P.** (1993) Anomalous lithospheric structure and continental breakup along the western margin of India. In: 18th AEG Annual convention and seminar on “Geophysical Exploration in Desert Terrains”, University of Rajasthan, Jaipur. April 6-8.

36. Pandey O.P., **Singh A.P.**, Agrawal P.K. and Negi J.G. (1993) Lithospheric structure of the Laxmi ridge and Late Cretaceous geodynamics of the western Indian Margin. In: 29th IGU Annual convention and meeting on "Perspective and Prospects in New Industrial Policy", NGRI, Hyderabad. February 22-24.
37. **Singh A.P.**, Pandey O.P., Agrawal P.K. and Negi J.G. (1992) Sedimentary thickness mapping and 3-D gravity inversion in the Cambay basin and estimates of hydrocarbon maturation temperatures. In: A symposium on "Signal Processing and Modelling of Geosignatures for Exploration of Oil and Natural Gas", BHU, Varanasi. February 27-29.
38. Pandey O.P., **Singh A.P.**, Agrawal P.K. and Negi J.G. (1991) Lithospheric low density underplating beneath western continental margin and adjacent offshore region (India). In: 28th IGU Annual convention and seminar on "Geophysics for Rural Development", NGRI, Hyderabad. December 17-19.
39. **Singh A.P.**, Pandey O.P., Agrawal P.K. and Negi J.G. (1991) Anomalous crustal and lithospheric structure beneath Cambay basin, India. In: 1st AEG International seminar and exhibition on "Exploration Geophysics in Nineteen Nineties", Hyderabad. November 25-30.
40. Negi J.G., Agrawal P.K., **Singh A.P.** and Pandey O.P. (1991) Meteoritic and/or lithospheric origin of positive gravity anomaly around Bombay? In: XX IUGG General Assembly, Vienna, Austria. August 11-24.
41. Mishra D.C., Gupta S.B., Rao J.M., Rao G.V.S.P., Jafri S.H., Rao M.B.S.V., Venkatrayudu M. and **Singh A.P.** (1989) Bhandara craton, Central India – Some significant tectonics from an integrated geophysical and geological study. In: International symposium on "Structures and Dynamics of the Indian Lithosphere", NGRI, Hyderabad. February 1-3.

SUMMARY OF STUDENT ACTIVITIES:

CURRENT STUDENTS

Enrolled one student for Ph. D.

PAST STUDENTS

Guided 5 M. Sc./M.Sc. (Tech) Students

POST-DOCTORAL AND VISITING SCIENTISTS SPONSORED

-NIL-

EXTERNAL PROJECTS AS CO-PL (PRESENT AND PAST)

Funding Agency	Project/Investigators	Amount	Period
MCL	Time-Laps Micro-Gravity Study for stability assessment of abandoned unfilled old working of the Deulbera Coal Mine, Talcher	Rs 11.5 Lakh	October, 2008 - November, 2012
DST	Integrated geological and geophysical studies bearing upon the crustal and lithospheric evolution of the Bastar craton: focus on kimberlites, mafic-ultramafic complexes and major structural units.	Rs 12.5 Lakh	April 2005 - March, 2008
