सत्यमेव जयते

Government of India
Ministry of Mines

A COMPILATION OF NATIONAL GEOSCIENCE AWARDEES 1995-2012

March 2015

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NATIONAL GEOSCIENCE AWARD FOR EXCELLENCE

NATIONAL GEOSCIENCE AWARD FOR EXCELLENCE - 2010

Professor Chervela Leelanandam

Professor Chervela Leelanandam, former Dean of Science, Osmania University and CSIR Emeritus Scientist, has been an academician and researcher par excellence who has pioneered the study of igneous petrology in India.

He completed his studies in geology from the Waltair University with a brilliant academic record and started his carrier as a teacher in Osmania University from where he obtained his first doctorate in the year 1961. He moved to Cambridge University, England on a Commonwealth fellowship and earned his second doctorate in 1965 under renowned academician Professor W.A. Deer.

Prof. Leelanandam is an accomplished researcher whose five decade long studies in the Eastern Ghats Belt has given a new dimension to the understanding of the granulite facies metamorphism and the evolution of various igneous complexes of India. His work on the petrogenesis of the layered anorthosite complexes at Kondapalli and Chimalpahad in Andhra Pradesh is well recognized.

Prof. Leelanandam is credited for making significant contribution towards the recognition and detailed petrological studies on the Prakasam Alkaline Complex. His innovative research on the deformed alkaline rocks and the carbonatites leading to the delineation of a 1200 km long Precambrian suture zone along the western margin of the Eastern Ghats Belt is highly acclaimed.

The discovery and subsequent research work by him on the Kandra Ophiolite Complex provided deeper insight into the understanding of crustal evolution in the Nellore-Khammam schist belt of Andhra Pradesh. Prof. Leelanandam along with his students and fellow researchers in Eastern Ghats are internationally recognized through his publications in the well acclaimed journals.

NATIONAL GEOSCIENCE AWARD FOR EXCELLENCE–2009

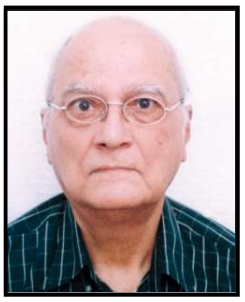
Professor Ashok Sahni

Professor Ashok Sahni is internationally recognized for his outstanding contributions in the area of vertebrate palaeontology. In his research career spanning over four decades, Prof Sahni has contributed significantly to the understanding of Cretaceous vertebrates, evolution of whales, Siwalik micro-vertebrates and skeletal ultra-structures of mammals. He is among the few Indian researchers to lead a team of interdisciplinary workers to address challenging questions in Indian geology. His findings on the duration of Deccan volcanism, integrating palaeontological, geochronological and magnetostratigraphic data, are a significant contribution in this sense. Professor Sahni continues this approach and he is presently involved in investigating the India – Asia collision and the consequent migration and dispersal of vertebrate life. His studies have led to some of the widely accepted hypotheses in macro-evolution and palaeobiogeography. His contribution on dinosaurs and their nesting sites in India are highly acclaimed.

As a dedicated teacher, Professor Sahni has trained a generation of research students at Panjab University, Chandigarh, who, as accomplished researchers, continue the tradition of excellence established by the Guru. Professor Sahni also played a leading role in the popularization of science among school children and contributed to the exhibits in the Natural History Museum in Chandigarh. He inspired a large number of Indian researchers in this country through his association in various capacities in the governance of the Wadia Institute of Himalayan Geology and Birbal Sahni Institute of Palaeobotany. He was also the Chairman of the Programme Advisory Committee (Earth Sciences) of the DST.

Professor Ashok Sahni has been honoured by the fellowships of the Indian National Science Academy, Indian Academy of Sciences, National Academy of Sciences and the Third World Academy of Sciences. The coveted Honorary Membership of the Society of Vertebrate Paleontology, USA, was also conferred upon him.

NATIONAL MINERAL AWARD FOR EXCELLENCE – 2008



Professor Sisir Kumar Sen

Professor Sisir Kumar Sen former Dean, Indian Institute of Technology, Kharagpur, has been an academician and researcher par excellence who has pioneered the study of advanced metamorphic petrology in India. In recognition of his lifetime contribution in the advancement of modern trends in teaching and research in metamorphic petrology in India, the National Mineral Award of Excellence -2008 was conferred on him.

Professor Sen has made seminal contribution in teaching metamorphic petrology for over three decades by introducing modern techniques and nurturing a pool of eminent researchers and teachers in the subject. His outstanding research in metamorphic petrology is based largely on the patterns of distribution of major elements among common metamorphic minerals. He has innovatively combined the mineral and rock chemistry to obtain a better insight into the origin of various minerals in different types of metamorphic rocks. He is credited with the formulation and fine calibration of several geo-thermometers. The orthopyroxene-garnet geothermometer developed by him in 1984 is still most widely used and internationally accepted.

Studies carried out by Prof. Sen along with his students and fellow researchers have also provided information on the evolution of various high grade rocks of Eastern Ghats and South Indian terrains. Prof. Sen is internationally recognized through his publications in acclaimed journals. He has been a member of the IUGS Subcommission on Metamorphic Rocks and had also held the editorship of the prestigious ‘Journal of Metamorphic Geology’ published from UK, for seven years.

NATIONAL MINERAL AWARD FOR EXCELLENCE – 2006

Dr. Syed Mahmood Naqvi

Dr. Syed Mahmood Naqvi, was Senior Scientist, National Geophysical Research Institute, Hyderabad. He is a scholar of repute who has made immense contribution through his studies in last four decades towards the understanding of the crustal evolution of the Indian subcontinent.

Through sustained petrological and geochemical studies on various rock types of the Dharwar craton and the greenstone belts, Dr. Naqvi has put the Precambrian Geology of India on the International map.

One of the earliest proponents of the Plate Tectonics theory even when it was not much in vogue, Dr. Naqvi has shown that horizontal compression and accretion operated even at 2.7 Ga for the development of the Dharwar greenstone belts. His painstaking work on the Archaean has brought many facts of the early history of the earth to light.

Dr. Naqvi is one of the most internationally cited scientists of the country who has over 180 scientific papers to his credit. He has also authored seven books and has produced thirty PhD's under his supervision.

NATIONAL MINERAL AWARD FOR EXCELLENCE – 2002

Dr. Harsh K. Gupta

Dr. Harsh K. Gupta, Secretary to the Government of India, Department of Ocean Development, an eminent geo-scientist, who has brought glory to the earth science community in India, through his outstanding contribution in the field of geophysics, earthquake and ocean development was conferred the National Mineral Award for Excellence in 2002.

Dr. Gupta's investigated artificial reservoir induced earthquakes all over the world and developed criteria to discriminate between reservoir induced earthquakes and normal earthquakes. The criteria generated are now globally applied to locate safer dam sites. His first book on "Dams and Earthquakes" has been extremely cited and has been translated in Russian and Chinese. He also carried out detailed studies on Latur earthquake, one of the most devastating earthquakes in the stable continental region and has established that fluids existing at shallow crustal depths played an important role in the genesis of the Latur earthquake.

Dr. Gupta held many important positions in various organizations included Director, Centre for Earth Science Studies, Trivandrum, Vice-Chancellor, Cochin University of Science & Technology, Cochin, Adviser, Department of Science and Technology, Government of India, New Delhi, Director, National Geophysical Research Institute, Hyderabad, and Secretary to the Government of India, Department of Ocean Development. Dr. Gupta in his capacity as Vice Chancellor, Cochin University of Science & Technology was responsible for establishing a well equipment computer centre in its joint research project of Defence Research & Development Organisation (DRDO) and Cochin University of Science & Technology. As Adviser, Department of Science & Technology, he initiated many new programmes including consolidating inputs on International Geosphere Biosphere Programme (IGBP) projects.

While at NGRI Dr. Gupta initiated detailed work on Gas Hydrates in the Exclusive Economic Zone of India. A comprehensive report was prepared under his leadership entitled "Gas Hydrate Exploration along the Continental Margins of India – Evaluation of Available Geophysical and Geological Data". During the his tenure as Secretary, Department of Ocean Development, he has left his imprint in Antarctica and established the Indian Ocean-Global Ocean Observation System (IO-GOOS) involving all the Indian Ocean Rim countries and initiated detailed seismic survey in the entire Exclusive Economic Zone of India for laying its legal claims on the continental shelf.

NATIONAL MINERAL AWARD FOR EXCELLENCE – 2001

Padamshree Dr. Hari Narain

Padamshree Dr. Hari Narain, Former Director and Emeritus Scientist, NGRI, Hyderabad is an eminent geoscientist who has made outstanding contributions in a career spanning 56 years. He is recognized as a person who has played a stellar role in developing geophysics and making it an important applied branch in India. He has been active in the fields of exploration, exploitation, management, conservation of natural resources and education. For his outstanding contribution in the field of geosciences, National Mineral Award for Excellence -2001 was conferred upon him.

Dr. Narain was instrumental in the establishment of a research institute under the aegis of ONGC, which is presently known as 'K.D. Malaviya Institute of Petroleum Exploration'. His tenure as Vice Chancellor of Banaras Hindu University form 1978 to 1981 is another landmark for referencing his skill in creating harmonious atmosphere congenial for serious studies and research. He was also successful in reorienting academic courses and provided direction for research activities. Dr. Narain enjoys the significant distinction of having been the first civilian Surveyor General of India from 1972 till 1976. He has also held many other important positions in various universities and organizations, including Director, National Geophysical Research Institute, Hyderabad.

Recognizing his distinguished record and meritorious services in the field of geosciences, he was conferred the coveted "Padamshree" award in 1974. Dr. Narain is a recipient of M.N. Saha Barth Centenary Gold Medal of Indian Science Congress, Commemoration Medal by USSR Academy of Science and Petrotech-1999 Lifetime Achievement Award.

NATIONAL MINERAL AWARD FOR EXCELLENCE – 2000

Padmashree Dr. B.P. Radhakrishna

Padmashree Dr. Bangalore Puttaiah Radhakrishna, President, Geological Society of India, Ex-Director, Department of Geology and Mines, Karnataka and an eminent geoscientist of the country was conferred National Mineral Award for Excellence in 2000 for his outstanding contributions in the field of geosciences in his career spanning over 60 years.

Dr. Radhkrishna has carried out significant studies in the field of geology and physiography of Indian sub-continent. He presented an original concept on the break-up and reassambly of different segments of Indian continent. Dr. Radhakrishna was the first to point out, way back in 1952, that the Indian Peninsula is not a static mass unaffiliated by recent static tectonic movements. Dr. Radhakrishna has provided a masterly review and synthesis on the influence of crustal evolution on ore deposition based on a thorough survey of the metalliferrous deposits of India.

Dr. Radhakrishna is one of the founder members of Geological Society of India and served as its first Secretary, editor of the official Journal of the Society and become its President in 1992. In recognition of his outstanding achievements, Dr. Radhakrishna was elected as Fellow of Indian Academy of Science in 1956, Indian National Science Academy in 1972, Honorary Fellow of the Geological Society of London in 1986 and Geological Society of America in 1988. He was awarded the Pramatha Nath Bose Medal of Asiatic Society, Calcutta in 1990 and conferred with Honorary degree of Doctor of Science in 1992 by Indian School of Mines.

In recognition of his meritorious services rendered in the field of geosciences, the President of India conferred *"Padmashree" on* him in 1993.

NATIONAL MINERAL AWARD FOR EXCELLENCE – 1997

Professor K.S. Valdiya

Professor K. S. Valdiya of the Jawahar Lal Nehru Centre of Advanced Scientific Research, Bangalore is an eminent teacher and geologist of International repute was conferred National Mineral Award for Excellence – 1997 for his outstanding contributions on the geodynamics of Himalayas including its sedimentation history, tectonics and environment.

Professor Valdiya's research work on Himalayas is internationally cited. The salient features of his studies include pioneering research on Cyanobacteria - built stromatolites for refinement of stratigraphic order in Lesser Himalayas and reconstruction of the paleogeography of the subcontinent during Proterozoic - Lower Precambrian time. The stratigraphic and structural studies done by him on the Himalayas have contributed significantly on the understanding of the evolutionary history of this young mountain belt. Professor Valdiya has also made significant contribution on the characterization and genetic aspect of the mangesite and sopstone deposits in eastern Kumanun.

He has been actively involved in the study of neotectonics of the lesser Himalayas and Southern Indian shield in South Karnataka and adjoining Tamilnadu. The field-based studies carried out by him has demonstrated that geomorphological rejuvenation of landforms, changes in courses of rivers, and their blockages besides modification of landform due to acceleration of gully erosion are related to continuous activity along planes of weakness in the rocks. His work has shown that there has been continuing movements on ancient faults. His studies have made widespread impact on the hazard assessment and mitigation aspects of these earthquake-prone belts.

The societal aspect of his research work had been the pioneering hydro geological studies on reduced stream flow and depletion of mountains springs in relation to environmental degradation.

NATIONAL MINERAL AWARD FOR EXCELLENCE – 1996

Professor V.K. Gaur

Professor V.K. Gaur of the Indian Institute of Astrophysics, Bangalore is an eminent teacher and a researcher in geoscience of international repute. He was conferred the first National Mineral Award for Excellence – 1996. He is an outstanding geophysicist who has given a new dimension to the research on this subject in India. He has left a mark in all spheres of his activities, i.e. as an academician in the University of Roorkee, as a researcher in the National Geophysical Research Institute and as a Secretary, Department of Ocean Development, Government of India. He has been instrumental in creating several schemes of research and developing schools of capable scientists in all of these institutions.

Professor Gaur has made pioneering contributions in acquiring new knowledge in Earth System Science including the host rock effect in geo-electromagnetics and seismotectonic setting of the Central Himalayas. His fundamental contribution in enhancing the understanding of the seismic hazard in Himalayas and in particular of mega hydroelectric projects in this geologically and ecologically sensitive terrain had provided a useful input for construction and planning of such projects.

He is credited with the research leading to the identification of a thick lithospheric root beneath the Dharwar Craton using seismic tomography and crustal strain field in South India using GPS constrained baselines. He has designed and implemented modern programmes in Antractic Science, the National Ocean Information System (NOIS), the Marine Satellite Information Services (MARSIS), Coastal Ocean Monitoring and Predication System and productive Coastal Ocean System (CODAPS)

NATIONAL GEOSCIENCE AWARDS

NATIONAL GEOSCIENCE AWARDS – 2012

Mineral Discovery & Exploration

Shri Kahnu Charan Sahoo
Geological Survey of India

Shri Kahnu Charan Sahoo of Geological Survey of India, Kolkata has made outstanding contribution towards the discovery of Platinum Group of Elements (PGE) in Bangur area, Kendujhar District, Odisha. He and his team members have added to the inventory of the country the PGE group resources of 1.58 million tons of ore which equates to 4.32 tons of PGE metal.

Dr. Manoranjan Mohanty
Geological Survey of India

Dr. Manoranjan Mohanty of Geological Survey of India, Bengaluru, has made outstanding contribution towards the discovery of Platinum Group of Elements (PGE) in Bangur area, Kendujhar District, Odisha. He and his team members have added to the inventory of the country the PGE group resources of 1.58 million tons of ore which equates to 4.32 tons of PGE metal.

Shri Priyadarshi Sahoo
Geological Survey of India

Shri Priyadarshi Sahoo of Geological Survey of India, Bhubaneswar, has made outstanding contribution towards the discovery of Platinum Group of Elements (PGE) in Bangur area, Kendujhar District, Odisha. He and his team members have added to the inventory of the country the PGE group resources of 1.58 million tons of ore which equates to 4.32 tons of PGE metal.

Shri Sisir Chandra Rath
Geological Survey of India

Shri Sisir Chandra Rath of Geological Survey of India has made outstanding contribution towards the discovery of Platinum Group of Elements (PGE) in Bangur area, Kendujhar District, Odisha. He and his team members have added to the inventory of the country the PGE group resources of 1.58 million tons of ore which equates to 4.32 tons of PGE metal.

Dr. Shibban Kumar Bhushan
MSPL Limited

Dr. Shibban Kumar Bhushan of MSPL Limited, Hosepet, Karnataka and his teammate have been successful in discovering a rich rare earth element (REE) deposit in Barmer district, Rajasthan. The team has identified several carbonatite bodies with estimated resource of 5.3 million tons of ore of light rare earth element (LREE) with a recoverable content of 0.26 million tons.

Shri Ashish Kumar
Ramgad Minerals & Mining Ltd.

Shri Ashish Kumar of Ramgad Minerals & Mining Limited, Hosepet, Karnataka and his teammate have been successful in discovering a rich rare earth element (REE) deposit in Barmer district, Rajasthan. The team has identified several carbonatite bodies with estimated resource of 5.3 million tons of ore of light rare earth element (LREE) with a recoverable content of 0.26 million tons.

Coal, Lignite and Coal Bed Methane Discovery & Exploration

Shri Jayanta Kumar Naik
Geological Survey of India

Shri Jayanta Kumar Naik of Geological Survey of India, Nagpur has made significant contribution in discovering a new coal resource in the Mand-Raigarh Coalfields in Mahanadi Valley Basin, Chhattisgarh. He and his team members have established thirteen regional coal blocks with maximum cumulative coal seam thickness ranging from 11 to 48 m, adding about 2 billion tons of 'Indicated Coal Resources' within quarriable depth.

Shri Partha Dutta
Geological Survey of India

Shri Partha Dutta of Geological Survey of India, Kolkata has made significant contribution in discovering a new coal resource in the Mand-Raigarh Coalfields in Mahanadi Valley Basin, Chhattisgarh. He and his team members have established thirteen regional coal blocks with maximum cumulative coal seam thickness ranging from 11 to 48 m, adding about 2 billion tons of 'Indicated Coal Resources' within quarriable depth.

Shri Arobindo Biswas
Geological Survey of India

Shri Arobindo Biswas of Geological Survey of India, Nagpur has made significant contribution in discovering a new coal resource in the Mand-Raigarh Coalfields in Mahanadi Valley Basin, Chhattisgarh. He and his team members have established thirteen regional coal blocks with maximum cumulative coal seam thickness ranging from 11 to 48 m, adding about 2 billion tons of 'Indicated Coal Resources' within quarriable depth.

Shri Sudhibrata Ray
Geological Survey of India

Shri Sudhibrata Ray of Geological Survey of India, Nagpur has made significant contribution in discovering a new coal resource in the Mand-Raigarh Coalfields in Mahanadi Valley Basin, Chhattisgarh. He and his team members have established thirteen regional coal blocks with maximum cumulative coal seam thickness ranging from 11 to 48 m, adding about 2 billion tons of 'Indicated Coal Resources' within quarriable depth.

Smt. Rashmi Rekha Naik
Geological Survey of India

Smt. Rashmi Rekha Naik of Geological Survey of India, Nagpur has made significant contribution in discovering a new coal resource in the Mand-Raigarh Coalfields in Mahanadi Valley Basin, Chhattisgarh. She and her team members have established thirteen regional coal blocks with maximum cumulative coal seam thickness ranging from 11 to 48 m, adding about 2 billion tons of 'Indicated Coal Resources' within quarriable depth.

Oil, Natural Gas and Hydrates Discovery

Dr. Aninda Mazumdar
National Institute of Oceanography

Dr. Aninda Mazumdar of National Institute of Oceanography, Goa**,** has made significant contribution towards the Indian gas hydrate exploration program in Krishna-Godavari basin through his innovative research work in the fields of pore-fluid geochemistry, iron-carbon-sulfur molybdenum (Fe-C-S-Mo) systematics, authigenic carbonates and paleo-methane emission events.

Dr. Nimisha Vedanti
National Geophysical Research Institute

Dr. Nimisha Vedanti of National Geophysical Research Institute, Hyderabad has done outstanding work in the field of Hydrocarbon Exploration leading to enhanced oil recovery in the 'Balol' oil field of Cambay basin. Results obtained by her through the interpretation of seismic data have been useful to engineers in optimizing the production strategy.

Groundwater Exploration

Shri Kottapalli Venkata Satyanarayana
Geological Survey of India

Shri Kottapalli Venkata Satyanarayana of Geological Survey of India, Shillong and his teammates worked out the salt water- fresh water interface in the 700 km^2 area along the coastal belt between Puducherry and Chidambaram in the Cauvery basin. Results obtained by he and his team members on deeper aquifers would help the town planning authorities in ground water management and its utilization in the coastal belt.

Shri B. Balakrishna
Geological Survey of India

Shri B. Balakrishna of Geological Survey of India, Hyderabad and his teammates worked out the salt water- fresh water interface in the 700 km^2 area along the coastal belt between Puducherry and Chidambaram in the Cauvery basin. Results obtained by he and his team members on deeper aquifers would help the town planning authorities in ground water management and its utilization in the coastal belt.

Shri Manyam Srinivasa Kumar
Geological Survey of India

Shri Manyam Srinivasa Kumar of Geological Survey of India and his teammates worked out the salt water- fresh water interface in the 700 km^2 area along the coastal belt between Puducherry and Chidambaram in the Cauvery basin. Results obtained by he and his team members on deeper aquifers would help the town planning authorities in ground water management and its utilization in the coastal belt.

Dr. Dinesh Gupta
Geological Survey of India

Dr. Dinesh Gupta of Geological Survey of India, Jaipur and his teammates worked out the salt water- fresh water interface in the 700 km^2 area along the coastal belt between Puducherry and Chidambaram in the Cauvery basin. Results obtained by he and his team members on deeper aquifers would help the town planning authorities in ground water management and its utilization in the coastal belt.

Mining Technology

Dr. Sanjay Kumar Roy
Central Institute of Mining and Fuel Research

Dr. Sanjay Kumar Roy of Central Institute of Mining and Fuel Research, Dhanbad, successfully developed an emulsion based explosive and cord system preventing huge National loss due to complete ban on nitro-glycerine (NG) explosives. This innovation by him is the first and so far the only approved non-nitroglycerine based explosive - cord system that has been patented.

Prof. Gyanindra Kumar Pradhan
Amicable Knowledge Solution University

Prof. Gyanindra Kumar Pradhan of Amicable Knowledge Solution University, Satna, Madhya Pradesh, has successfully designed blasting rounds using waste plastic bottles in surface mines of UCIL, HCL and limestone mines of OCL and ACC Limited. This blasting technique has led to savings in crusher energy consumption and has also helped in the utilization of environmentally hazardous plastic bottles.

Mineral Beneficiation

Dr. Nilotpala Pradhan
CSIR Institute of Mineral & Materials Technology

Dr. Nilotpala Pradhan of Institute of Mineral & Materials Technology, Bhubaneswar, has done extensive research in the areas of mineral bio-processing and bio-remediation. Her work is aimed towards optimum mineral resource utilization so that valuable metals can be recovered from mining wastes by bioleaching processes for copper, nickel, uranium manganese and low grade iron ore and thereby preventing metal ion pollution of surrounding soil and water.

Stratigraphy, Structural Geology, Paleontology, Geomorphology, Economic geology and Geodynamics

Prof. Sunil Bajpai
Birbal Sahni Institute of Palaeobotany

Prof. Sunil Bajpai of Birbal Sahni Institute of Palaeobotany, Lucknow, has made significant contribution towards the understanding of Indian Tertiary vertebrate fauna and its integration with geodynamics. He discovered the oldest fossil whale in the world from about 47 Ma old rocks of northwest Himalaya and was instrumental in the discovery of the oldest Cenozoic land mammal fauna in South Asia from Surat district, Gujarat.

Petrology & Geochemistry

Dr. Sunil Kumar Singh
Physical Research Laboratory

Dr. Sunil Kumar Singh of Physical Research Laboratory, Ahmedabad, has done pioneering studies towards the understanding of the evolution of Himalaya. He could link the tectonics, climate, chemical and isotopic makeup of the oceans during the Cenozoic though his studies on the chemical and physical erosion in the Himalaya.

Dr. Sankar Bose
Presidency University

Dr. Sankar Bose of Presidency University, Kolkata, has done fundamental research on the evolution of the Eastern Ghats Belt of India. His research on petrology, structure and geochronology of this belt has strengthened the correlation between India and East Antarctica during the Precambrian.

Geo- Environmental Studies

Dr. Ram Ratan Yadav
Birbal Sahni Institute of Palaeobotany

Dr. Ram Ratan Yadav of Birbal Sahni Institute of Palaeobotany, Lucknow, has made substantive contributions towards the application of dendrochronology and climatology for global change studies in India. His research has provided useful insights into the precipitation and temperature changes in the Himalaya while establishing the linkage between regional and hemispheric scale climatic parameters.

Ocean Development

Dr. B. Nagender Nath
National Institute of Oceanography

Dr. B. Nagender Nath of National Institute of Oceanography, Goa, has made significant contribution towards the exploration of the polymetallic nodules in the ocean. India's first cruise for exploring hydrothermal mineralization at oceanic spreading centres was led by him. His work provided a firm footing to India in the field of deep-sea oceanography.

NATIONAL GEOSCIENCE AWARDS – 2011

Mineral Discovery & Exploration

Shri Pratap Singh Parihar
Atomic Minerals Directorate for Exploration & Research

Shri Pratap Singh Parihar of Atomic Minerals Directorate for Exploration & Research, Hyderabad has made significant contributions in the field of Uranium exploration in Tumallapalle area of Kadapa basin of Southern India. He and his teammates has established in situ reserve of 50,000 t U_3O_8 up to a vertical depth of 500m.

Dr. Ashwini Kumar Rai
Atomic Minerals Directorate for Exploration & Research

Dr. Ashwini Kumar Rai of Atomic Minerals Directorate for Exploration & Research, Hyderabad has made significant contributions in the field of Uranium exploration in Tumallapalle area of Kadapa basin of Southern India. He and his teammates has established in situ reserve of 50,000 t U_3O_8 up to a vertical depth of 500m.

Dr. Syed Zakaulla
Atomic Minerals Directorate for Exploration & Research

Dr. Syed Zakaulla of Atomic Minerals Directorate for Exploration & Research, Hyderabad has made significant contributions in the field of Uranium exploration in Tumallapalle area of Kadapa basin of Southern India. He and his teammates has established in situ reserve of 50,000 t U_3O_8 up to a vertical depth of 500m.

Shri Suresh Kumar
Atomic Minerals Directorate for Exploration & Research

Shri Suresh Kumar of Atomic Minerals Directorate for Exploration & Research, Hyderabad has made significant contributions in the field of Uranium exploration in Tumallapalle area of Kadapa basin of Southern India. He and his teammates has established in situ reserve of 50,000 t U_3O_8 up to a vertical depth of 500m.

Dr. N. Pazhamalai Nathan
Geological Survey of India

Dr. N. Pazhamalai Nathan of Geological Survey of India, Kolkata has made significant contributions towards exploration of strategically important PGE minerals, in Tamil Nadu. He and his team members have delineated a major PGE mineralized zone in the chromite bands in Chettiyampalaiyam- Tasampalaiyam blocks with PGE values ranging from 1 ppm to 26 ppm.

Shri R. Vijay Kumar
Geological Survey of India

Shri R. Vijay Kumar of Geological Survey of India, Kolkata has made significant contributions towards exploration of strategically important PGE minerals, in Tamil Nadu. He and his team members have delineated a major PGE mineralized zone in the chromite bands in Chettiyampalaiyam- Tasampalaiyam blocks with PGE values ranging from 1 ppm to 26 ppm.

Shri J. Prabhakar
Geological Survey of India

Shri J. Prabhakar of Geological Survey of India, Kolkata has made significant contributions towards exploration of strategically important PGE minerals, in Tamil Nadu. He and his team members have delineated a major PGE mineralized zone in the chromite bands in Chettiyampalaiyam- Tasampalaiyam blocks with PGE values ranging from 1 ppm to 26 ppm.

Shri S. Dhanendran
Geological Survey of India

Shri S. Dhanendran of Geological Survey of India, Kolkata has made significant contributions towards exploration of strategically important PGE minerals, in Tamil Nadu. He and his team members have delineated a major PGE mineralized zone in the chromite bands in Chettiyampalaiyam- Tasampalaiyam blocks with PGE values ranging from 1 ppm to 26 ppm.

Coal, Lignite and Coal Bed Methane Discovery & Exploration

Shri Rajeeva Roy
Geological Survey of India

Shri Rajeeva Roy of Geological Survey of India, Kolkata has made significant contributions in exploration for Coal in the Gondawana basin of Chattisgarh. The commendable work by him and his team members has resulted in locating 2 billion tonnes of coal resources at shallow depths in Tatapani-Ramkola Coalfield, Chhattisgarh, an area previously thought to be non potential.

Dr.Sudip Bhattacharyya
Geological Survey of India

Dr. Sudip Bhattacharyya of Geological Survey of India, Kolkata has made significant contributions in exploration for Coal in the Gondawana basin of Chattisgarh. The commendable work by him and his team members has resulted in locating 2 billion tonnes of coal resources at shallow depths in Tatapani-Ramkola Coalfield, Chhattisgarh, an area previously thought to be non potential.

Dr Saibal Chandra Mitra
Geological Survey of India

Dr Saibal Chandra Mitra of Geological Survey of India, Kolkata has made significant contributions in exploration for Coal in the Gondawana basin of Chattisgarh. The commendable work by him and his team members has resulted in locating 2 billion tonnes of coal resources at shallow depths in Tatapani-Ramkola Coalfield, Chhattisgarh, an area previously thought to be non potential.

Groundwater Exploration

Dr. Bekkam Venkateswara Rao
Jawaharlal Nehru Technological University

Dr. Bekkam Venkateswara Rao of Jawaharlal Nehru Technological University, Hyderabad has made significant contributions towards precise identification and characterization of the aquifers through resistivity, seismic, and electromagnetic techniques in the Khondalitic Terrain of Eastern Ghats.

Mining Technology

Dr. Virendra Kumar Singh
Central Institute of Mining and Fuel Research

Dr. Virendra Kumar Singh of Central Institute of Mining and Fuel Research, Dhanbad has developed a technique based on two way analyses of variance for zonation of a mine into different homogeneous design sectors for an optimum slope design. The optimum mine slope design has advantageously helped in adopting steeper slope angles in different opencast mines, that has helped improved production by converting waste in to wealth.

Stratigraphy, Structural Geology, Palaeontology, Geomorphology, Economic Geology and Geodynamics

Prof. Laxman Singh Chamyal
Maharaja Sayajirao University

Prof. Laxman Singh Chamyal of Maharaja Sayajirao University of Baroda has made pioneering contributions in the understanding of the geological, tectonic and climatic events in western India during the Quaternary. He has extensively worked in mainland Gujarat and Kachchh peninsula to understand the evolution of the Gujarat alluvial plains and the Kachchh basin during the Quaternary.

Petrology and Geochemistry including Mineralogy, Geochronology and Isotope Geology

Dr. Vijay Kumar Kopparapu
School of Earth Science, SRTM University

Dr. Vijay Kumar Kopparapu of School of Earth Science, SRTM University, Nanded (Maharastra) has carried out extensive petrological, geochemical and geochronological studies on the felsic and mafic granulites of Eastern Ghats which have provided evidences for the existence of Paleoproterozoic subduction-related magmatism in a continental-volcanic-plutonic regime in the Eastern Ghats Belt.

Geophysics/Applied Geophysics

Dr. Prakash Kumar
National Geophysical Research Institute

Dr. Prakash Kumar of National Geophysical Research Institute, Hyderabad, has made seminal contributions towards seismological mapping of the hitherto elusive Lithospheric-Asthenospheric boundary with the aid of converted waves using data from continent and ocean bottom. In active seismology he contributed towards understanding the cratonic evolution of the central India using the Deep Seismic Sounding Data across the Narmada zone.

Geo-Environmental Studies

Dr. Pradeep Srivasatava
Wadia Institute of Himalayan Geology

Dr. Pradeep Srivasatava of Wadia Institute of Himalayan Geology, Dehradun has contributed towards understanding the formation and evolution of the Ganga plains through the study of regional climates and Himalayan tectonics. It opened up new areas of research in the field of Quaternary Geology and Palaeoclimate during the Quaternary period.

Disaster Management

Dr. Shantanu Sarkar
Central Building Research Institute

Dr. Shantanu Sarkar of Central Building Research Institute, Roorkee has contributed extensively towards landslide studies with special reference to hazard zonation, database creation, landslide monitoring, slope stability and risk assessment. The technique of landslide hazard zonation mapping developed by him have been implemented and validated in different parts of Himalaya.

Glaciology and Antarctic Research

Dr. Thamban Meloth
National Centre for Antarctic & Ocean Research

Dr. Thamban Meloth of National Centre for Antarctic & Ocean Research, Vasco-Da-Gama, Goa has made seminal contributions in the field of Antarctic research. Dr. Thamban is credited with the establishment of the first state-of-the-art Ice core Laboratory at NCAOR, as a national facility for the study of ice/snow. He has significantly contributed to the advancement of environmental science and climate change using palaeoclimate archives of ocean sediment and polar ice cores.

NATIONAL GEOSCIENCE AWARDS – 2010

Mineral Discovery & Exploration

Shri Narendra Kumar *Kavdia*
Hindustan Zinc Limited

Shri Narendra Kumar Kavdia of Hindustan Zinc Limited, Udaipur has carried out extensive work in the Rampura-Agucha and Rajpura-Dariba mineral belts of Rajasthan. The exploration carried out by him has resulted in augmentation of the size of Rampura Agucha deposits that got doubled to 120 million tonnes.

Dr. Prabhakar S. Sangurmath
Hutti Gold Mines Company Limited

Dr. Prabhakar S. Sangurmath of Hutti Gold Mines Company Limited, Karnataka carried out detailed exploration in the Maruda gold deposit of Kerala. He is credited with establishing ore reserves of 2.32 million tonnes at 2.62 gram/tonne of gold and opening of Uti open- pit mine that has yielded about 1406 kg gold till now.

Dr. Prem Ballabh Maithani
Atomic Minerals Directorate for Exploration and Research

Dr. Prem Ballabh Maithani of Atomic Minerals Directorate for Exploration and Research, Hyderabad, along with his teammates has carried out concept based regional exploration for uranium, rare metal and rare earth elements in various parts of the country. Shri Maithani is credited for planning and executing uranium exploration in Cuddapah Basin of Andhra Pradesh that resulted in addition of substantial amount of resources to the national inventory.

Shri Mohan Babu Verma
Atomic Minerals Directorate for Exploration and Research

Shri Mohan Babu Verma of Atomic Minerals Directorate for Exploration and Research, Bengaluru, along with his teammates has carried out concept based regional exploration for uranium, rare metal and rare earth elements in various parts of the country. He was responsible for exploration of albitite type uranium mineralization in Sikar district and established estimated reserves of 1100 tonnes of uranium oxide in carbonaceous phyllite and limestone in Udaipur district.

Shri Prakhar Kumar
Atomic Minerals Directorate for Exploration and Research

Shri Prakhar Kumar of Atomic Minerals Directorate for Exploration and Research, Jaipur, along with his teammates has carried out concept based regional exploration for uranium, rare metal and rare earth elements in various parts of the country. He is credited with the discovery of uranium mineralization in Guntur district, Andhra Pradesh from where 1240 tonnes of reserves have been proved.

Shri *Perakalapudi* Nageshwara Rao
Atomic Minerals Directorate for Exploration and Research

Shri Perakalapudi Nageshwara Rao of Atomic Minerals Directorate for Exploration and Research, Hyderabad, along with his teammates has carried out concept based regional exploration for uranium, rare metal and rare earth elements in various parts of the country. Shri Rao was also associated with the evaluation of Koppunuru uranium occurrence in the Guntur district, Andhra Pradesh from where 1240 tonnes of uranium resources have been established

Oil, Natural Gas and Gas Hydrates Discovery & Exploration

Dr. Malayath Aravindakshan Atmanand
National Institute of Ocean Technology

Dr. Malayath Aravindakshan Atmanand of National Institute of Ocean Technology, Chennai along with his teammates has developed deep-sea technological devices for understanding the spatial extent of gas hydrate and other mineral resources in Indian continental margins. The teamwork led to development of two systems namely Remotely Operated Vehicle (ROV) and Autonomous Coring System (ACS) for 6000 and 3000 m depth of operation respectively. Remotely Operable Submersible (ROSUB 6000) had been designed to record the pathfinders for the exploration and is first of its kind in India.

Dr. *Gidugu Ananda* Ramadass
National Institute of Ocean Technology

Dr. Gidugu Ananda Ramadass of National Institute of Ocean Technology, Chennai along with his teammates has developed deep-sea technological devices for understanding the spatial extent of gas hydrate and other mineral resources in Indian continental margins. The teamwork led to development of two systems namely Remotely Operated Vehicle (ROV) and Autonomous Coring System (ACS) for 6000 and 3000 m depth of operation respectively. Remotely Operable Submersible (ROSUB 6000) had been designed to record the pathfinders for the exploration and is first of its kind in India.

Dr. Sethuraman Ramesh
National Institute of Ocean Technology

Dr. Sethuraman Ramesh of National Institute of Ocean Technology, Chennai along with his teammates has developed deep-sea technological devices for understanding the spatial extent of gas hydrate and other mineral resources in Indian continental margins. The teamwork led to development of two systems namely Remotely Operated Vehicle (ROV) and Autonomous Coring System (ACS) for 6000 and 3000 m depth of operation respectively. Remotely Operable Submersible (ROSUB 6000) had been designed to record the pathfinders for the exploration and is first of its kind in India.

Shri Joseph Manecius Selvakumar
National Institute of Ocean Technology

Shri Joseph Manecius Selvakumar of National Institute of Ocean Technology, Chennai along with his teammates has developed deep-sea technological devices for understanding the spatial extent of gas hydrate and other mineral resources in Indian continental margins. The teamwork led to development of two systems namely Remotely Operated Vehicle (ROV) and Autonomous Coring System (ACS) for 6000 and 3000 m depth of operation respectively. Remotely Operable Submersible (ROSUB 6000) had been designed to record the pathfinders for the exploration and is first of its kind in India.

Shri Annamalai Subramanian
National Institute of Ocean Technology

Shri Annamalai Subramanian of National Institute of Ocean Technology, Chennai along with his teammates has developed deep-sea technological devices for understanding the spatial extent of gas hydrate and other mineral resources in Indian continental margins. The teamwork led to development of two systems namely Remotely Operated Vehicle (ROV) and Autonomous Coring System (ACS) for 6000 and 3000 m depth of operation respectively. Remotely Operable Submersible (ROSUB 6000) had been designed to record the pathfinders for the exploration and is first of its kind in India.

Shri Dharmaraj Sathianarayanan
National Institute of Ocean Technology

Shri Dharmaraj Sathianarayanan of National Institute of Ocean Technology, Chennai along with his teammates has developed deep-sea technological devices for understanding the spatial extent of gas hydrate and other mineral resources in Indian continental margins. The teamwork led to development of two systems namely Remotely Operated Vehicle (ROV) and Autonomous Coring System (ACS) for 6000 and 3000 m depth of operation respectively. Remotely Operable Submersible (ROSUB 6000) had been designed to record the pathfinders for the exploration and is first of its kind in India.

Shri Raju Ramesh
National Institute of Ocean Technology

Shri Raju Ramesh of National Institute of Ocean Technology, Chennai along with his teammates has developed deep-sea technological devices for understanding the spatial extent of gas hydrate and other mineral resources in Indian continental margins. The teamwork led to development of two systems namely Remotely Operated Vehicle (ROV) and Autonomous Coring System (ACS) for 6000 and 3000 m depth of operation respectively. Remotely Operable Submersible (ROSUB 6000) had been designed to record the pathfinders for the exploration and is first of its kind in India.

Shri Gopalkrishnan Harikrishnan
National Institute of Ocean Technology

Shri Gopalkrishnan Harikrishnan of National Institute of Ocean Technology, Chennai along with his teammates has developed deep-sea technological devices for understanding the spatial extent of gas hydrate and other mineral resources in Indian continental margins. The teamwork led to development of two systems namely Remotely Operated Vehicle (ROV) and Autonomous Coring System (ACS) for 6000 and 3000 m depth of operation respectively. Remotely Operable Submersible (ROSUB 6000) had been designed to record the pathfinders for the exploration and is first of its kind in India.

Groundwater Exploration

Dr. Dipankar Saha
Central Ground Water Board

Dr. *Dipankar Saha* of Central Ground Water Board, Patna has formulated sustainable groundwater management plan by integrating multi-parametric, thematic layers in a GIS environment enabling resource availability for future. He has made significant contribution in establishing the heterogeneous distribution and mobilization of arsenic in groundwater in the Gangetic Plains upstream of Garo-Rajmahal Gap. Dr. Saha was instrumental in making provisions for community-scale, arsenic free, drinking water supply in Bihar

Mining Technology

Dr. Kalendra Bahadur Singh
Central Institute of Mining & Fuel Research

Dr. Kalendra Bahadur Singh of Central Institute of Mining & Fuel Research, Dhanbad, has applied innovative techniques in the field of Rock Mechanics and Ground Control. He has conducted extensive subsidence investigations in different Indian Coalfields, which resulted into the development of subsidence prediction models. His studies have led towards extraction of huge resources of coal locked up below different surface features and structures.

Dr. More Ramulu
Central Institute of Mining & Fuel Research

Dr. More Ramulu of Central Institute of Mining & Fuel Research, Nagpur, has carried out outstanding work in developing innovative techniques in the area of rock excavation and blasting engineering. His specialization in controlled blasting was successfully applied at underground coal mines of Western Coalfields Limited and Himalayan tunnels with significant improvement in performance.

Stratigraphy, Structural Geology, Palaeontology, Geomorphology, Economic Geology and Geodynamics

Dr. Manish Atmaprakash Mamtani
Indian Institute of Technology

Dr. Manish Atmaprakash Mamtani of Indian Institute of Technology, Kharagpur has done comprehensive research to resolve various problems in structural geology by applying an innovative combination of field work, micro-structural and AMS (anisotropy of magnetic susceptibility) studies. His work on the Godhra Granite was the first ever study in India that demonstrated the full potential of AMS studies in determining the internal fabric in plutonic rocks and establishing the time relationship between regional deformation and fabric development.

Dr. Sarbani Patranabis Deb
Indian Statistical Institute

Dr. Sarbani Patranabis Deb of Indian Statistical Institute, Kolkata has made significant contribution on the stratigraphic analysis of Proterozoic basins of the South Indian craton. Her work involves detailed analyses of depositional systems, palaeogeography, stratigraphic evolution and basin tectonics. She has also made commendable work towards the understanding of the stratigraphic and tectonic evolution of the Mesoproterozoic Chattisgarh basin.

Petrology and Geochemistry including Mineralogy, Geochronology and Isotope Geology

Dr. Hetu Chandrakant Sheth
Indian Institute of Technology

Dr. Hetu Chandrakant Sheth of Indian Institute of Technology, Bombay has developed new concepts in volcanology and petrology through his research on the Deccan Traps and other flood basalts. Geochronological studies carried out by him have shown that Deccan volcanism was a protracted event with a total duration of at least 8-9 million years contrary to the earlier belief of its lasting for one or a half million years.

Geophysics / Applied Geophysics

Dr. Ravi Prakash Srivastava
National Geophysical Research Institute

Dr. Ravi Prakash Srivastava of National Geophysical Research Institute, Hyderabad has done outstanding work towards modeling of complex sub-surface structures using fractal geometry and its geophysical response. His most significant work involves development of a new technique to model hydrocarbon reservoirs, irregular sedimentary basins and aquifers.

Dr. Shalivahan
Indian School of Mines University

Dr. Shalivahan of Indian School of Mines University, Dhanbad, has done extensive studies in interpretation of geophysical data for mineral, ground water, geothermal exploration and deep crustal studies. His contributions in the interpretation of resistivity, Induced Polarization (IP), Self Potential (SP), Electromagnetic (EM), Magnetic and Gravity methods have yielded significant results in mineral and ground water exploration.

Geo-Environmental Studies

Dr. Navin Juyal
Physical Research Laboratory

Dr. Navin Juyal of Physical Research Laboratory, Ahmedabad, has made significant contribution towards quantitative reconstruction of late Quaternary climate from desert margins of Gujarat and the Himalaya. He has innovatively used optical and radiocarbon dating techniques to reconstruct spatial and temporal changes in late Quaternary monsoon variability. Dr. Juyal's work provides the first records of northward shrinkage of the Thar Desert during the past 10 ka.

Disaster Management

Dr. Tummala Srinivasa Kumar
Indian National Centre for Ocean Information Services

Dr. Tummala Srinivasa Kumar of Indian National Centre for Ocean Information Services, Hyderabad and his team members were instrumental in establishing the state-of-the-art Tsunami Early Warning System (TEWS) that is recognized as one of the best in the world. His team was entrusted with the responsibility of developing the System after the devastating December 2004 tsunami and the task included the complete scientific understanding of tsunami, from its generation to propagation and inundation. The most challenging task was extremely small timelines for warning in case of a tsunami.

Dr. B Ajay Kumar
Indian National Centre for Ocean Information Services

Dr. B. Ajay Kumar of Indian National Centre for Ocean Information Services, Hyderabad and his team members were instrumental in establishing the state-of-the-art Tsunami Early Warning System (TEWS) that is recognized as one of the best in the world. His team was entrusted with the responsibility of developing the System after the devastating December 2004 tsunami and the task included the complete scientific understanding of tsunami, from its generation to propagation and inundation. The most challenging task was extremely small timelines for warning in case of a tsunami.

Shri B.V. Satyanarayana
Indian National Centre for Ocean Information Services

Shri B. V. Satyanarayana of Indian National Centre for Ocean Information Services, Hyderabad and his team members were instrumental in establishing the state-of-the-art Tsunami Early Warning System (TEWS) that is recognized as one of the best in the world. His team was entrusted with the responsibility of developing the System after the devastating December 2004 tsunami and the task included the complete scientific understanding of tsunami, from its generation to propagation and inundation. The most challenging task was extremely small timelines for warning in case of a tsunami.

Shri C. Patanjali Kumar
Indian National Centre for Ocean Information Services

Shri C. Patanjali Kumar of Indian National Centre for Ocean Information Services, Hyderabad and his team members were instrumental in establishing the state-of-the-art Tsunami Early Warning System (TEWS) that is recognized as one of the best in the world. His team was entrusted with the responsibility of developing the System after the devastating December 2004 tsunami and the task included the complete scientific understanding of tsunami, from its generation to propagation and inundation. The most challenging task was extremely small timelines for warning in case of a tsunami.

Shri G. Suresh
India Meteorological Department

Shri G. Suresh of India Meteorological Department, New Delhi and his team members were instrumental in establishing the state-of-the-art Tsunami Early Warning System (TEWS) that is recognized as one of the best in the world. His team was entrusted with the responsibility of developing the System after the devastating December 2004 tsunami and the task included the complete scientific understanding of tsunami, from its generation to propagation and inundation. The most challenging task was extremely small timelines for warning in case of a tsunami.

Ms. M. V. Sunanda
Indian National Centre for Ocean Information Services

Ms. M. V. Sunanda of Indian National Centre for Ocean Information Services, Hyderabad and his team members were instrumental in establishing the state-of-the-art Tsunami Early Warning System (TEWS) that is recognized as one of the best in the world. Her team was entrusted with the responsibility of developing the System after the devastating December 2004 tsunami and the task included the complete scientific understanding of tsunami, from its generation to propagation and inundation. The most challenging task was extremely small timelines for warning in case of a tsunami.

Dr. M. V. Ramana Murthy
Indian National Institute of Ocean Technology

Dr. M. V. Ramana Murthy of Indian National Institute of Ocean Technology, Chennai and his team members were instrumental in establishing the state-of-the-art Tsunami Early Warning System (TEWS) that is recognized as one of the best in the world. His team was entrusted with the responsibility of developing the System after the devastating December 2004 tsunami and the task included the complete scientific understanding of tsunami, from its generation to propagation and inundation. The most challenging task was extremely small timelines for warning in case of a tsunami.

Shri Tata Sudhakar
Indian National Institute of Ocean Technology

Shri Tata Sudhakar of Indian National Institute of Ocean Technology, Chennai and his team members were instrumental in establishing the state-of-the-art Tsunami Early Warning System (TEWS) that is recognized as one of the best in the world. His team was entrusted with the responsibility of developing the System after the devastating December 2004 tsunami and the task included the complete scientific understanding of tsunami, from its generation to propagation and inundation. The most challenging task was extremely small timelines for warning in case of a tsunami.

Dr. S. Rajan
National Centre for Antarctic and Ocean Research

Dr. S Rajan of National Centre for Antarctic and Ocean Research, Goa along with his multi-institutional team has successfully carried out the documentation task of delineating the outer limits of India's continental shelf for laying claims to an extended area beyond 200 nautical miles under the provisions of the United Nations Convention on the Law of the Sea (UNCLOS). He along with his team developed a comprehensive data acquisition protocol.

Dr. John Kurian P
National Centre for Antarctic and Ocean Research

Dr. John Kurian P of National Centre for Antarctic and Ocean Research, Goa along with his multi-institutional team has successfully carried out the documentation task of delineating the outer limits of India's continental shelf for laying claims to an extended area beyond 200 nautical miles under the provisions of the United Nations Convention on the Law of the Sea (UNCLOS). He along with his team developed a comprehensive data acquisition protocol.

Dr. Dhananjai Kumar Pandey
National Centre for Antarctic and Ocean Research

Dr. Dhananjai Kumar Pandey of National Centre for Antarctic and Ocean Research, Goa along with his multi-institutional team has successfully carried out the documentation task of delineating the outer limits of India's continental shelf for laying claims to an extended area beyond 200 nautical miles under the provisions of the United Nations Convention on the Law of the Sea (UNCLOS). He along with his team developed a comprehensive data acquisition protocol.

Dr. B Ashalatha
National Geophysical Research Institute

Dr. B Ashalatha of National Geophysical Research Institute, Hyderabad along with her multi-institutional team has successfully carried out the documentation task of delineating the outer limits of India's continental shelf for laying claims to an extended area beyond 200 nautical miles under the provisions of the United Nations Convention on the Law of the Sea (UNCLOS). She along with her team developed a comprehensive data acquisition protocol.

Dr. Naresh Kumar Thakur
National Geophysical Research Institute

Dr. Naresh Kumar Thakur of National Geophysical Research Institute, Hyderabad along with his multi-institutional team has successfully carried out the documentation task of delineating the outer limits of India's continental shelf for laying claims to an extended area beyond 200 nautical miles under the provisions of the United Nations Convention on the Law of the Sea (UNCLOS). He along with his team developed a comprehensive data acquisition protocol.

Dr. Pasupuleti Prasada Rao
National Geophysical Research Institute

Dr. Pasupuleti Prasada Rao of National Geophysical Research Institute, Hyderabad along with his multi-institutional team has successfully carried out the documentation task of delineating the outer limits of India's continental shelf for laying claims to an extended area beyond 200 nautical miles under the provisions of the United Nations Convention on the Law of the Sea (UNCLOS). He along with his team developed a comprehensive data acquisition protocol.

Dr. Anil Kumar Chaubey
National Institute of Oceanography

Dr. Anil Kumar Chaubey of National Institute of Oceanography, Goa along with his multi-institutional team has successfully carried out the documentation task of delineating the outer limits of India's continental shelf for laying claims to an extended area beyond 200 nautical miles under the provisions of the United Nations Convention on the Law of the Sea (UNCLOS). He along with his team developed a comprehensive data acquisition protocol.

Dr. Kolluru Sree Krishna
National Institute of Oceanography

Dr. Kolluru Sree Krishna of National Institute of Oceanography, Goa along with his multi-institutional team has successfully carried out the documentation task of delineating the outer limits of India's continental shelf for laying claims to an extended area beyond 200 nautical miles under the provisions of the United Nations Convention on the Law of the Sea (UNCLOS). He along with his team developed a comprehensive data acquisition protocol.

Shri Gopal Chandra Bhattacharya
National Institute of Oceanography

Shri Gopal Chandra Bhattacharya of National Institute of Oceanography, Goa along with his multi-institutional team has successfully carried out the documentation task of delineating the outer limits of India's continental shelf for laying claims to an extended area beyond 200 nautical miles under the provisions of the United Nations Convention on the Law of the Sea (UNCLOS). He along with his team developed a comprehensive data acquisition protocol.

Glaciology and Antarctic Research

Shri Rajesh Asthana
Geological Survey of India

Shri Rajesh Asthana of Geological Survey of India, Faridabad has made significant contributions towards geoscientific expeditions and Antarctic research. He has been associated with Indian Antarctic Research for about two decades and has done outstanding studies in sedimentology and palaeo-climate. He designed and fabricated an indigenous coring device for core retrieval from Antarctic lakes that formed the basis of multi-disciplinary research on palaeo-climate in Antarctic environment.

NATIONAL GEOSCIENCE AWARDS - 2009

Coal, Lignite and Coal Bed Methane Discovery & Exploration

Dr. Basudeb Datta
Geological Survey of India,

Dr. Basudeb Datta of Geological Survey of India, Kolkata and his team mates have carried out concept-oriented exploration for coal in the Birbhum Brahmani basin of Rajmahal Goldwana Master Basin and helped in identification of the Barakar Formation in the area covered by Rajmahal Traps and Tertiary sediments. This integrated exploration in the virgin area has established a total resource of 3500 million tonnes of power grade coal at shallow depth. The work has also opened up possibilities of further additional resource to the tune of 2000 million tonnes of coal in the extension area.

Shri Debiprosad Chatterjee
Geological Survey of India

Shri Debiprosad Chatterjee of Geological Survey of India, Kolkata and his team mates have carried out concept-oriented exploration for coal in the Birbhum Brahmani basin of Rajmahal Goldwana Master Basin and helped in identification of the Barakar Formation in the area covered by Rajmahal Traps and Tertiary sediments. This integrated exploration in the virgin area has established a total resource of 3500 million tonnes of power grade coal at shallow depth. The work has also opened up possibilities of further additional resource to the tune of 2000 million tonnes of coal in the extension area.

Shri Pradip Kumar Datta
Geological Survey of India

Shri Pradip Kumar Datta of Geological Survey of India, Kolkata and his team mates have carried out concept-oriented exploration for coal in the Birbhum Brahmani basin of Rajmahal Goldwana Master Basin and helped in identification of the Barakar Formation in the area covered by Rajmahal Traps and Tertiary sediments. This integrated exploration in the virgin area has established a total resource of 3500 million tonnes of power grade coal at shallow depth. The work has also opened up possibilities of further additional resource to the tune of 2000 million tonnes of coal in the extension area.

Shri R.G. Khankar
Geological Survey of India

Shri R.G. Khankar of Geological Survey of India, Kolkata and his team mates have carried out concept-oriented exploration for coal in the Birbhum Brahmani basin of Rajmahal Goldwana Master Basin and helped in identification of the Barakar Formation in the area covered by Rajmahal Traps and Tertiary sediments. This integrated exploration in the virgin area has established a total resource of 3500 million tonnes of power grade coal at shallow depth. The work has also opened up possibilities of further additional resource to the tune of 2000 million tonnes of coal in the extension area.

Shri Saugata Datta
Geological Survey of India

Shri Saugata Datta of Geological Survey of India, Kolkata and his team mates have carried out concept-oriented exploration for coal in the Birbhum Brahmani basin of Rajmahal Goldwana Master Basin and helped in identification of the Barakar Formation in the area covered by Rajmahal Traps and Tertiary sediments. This integrated exploration in the virgin area has established a total resource of 3500 million tonnes of power grade coal at shallow depth. The work has also opened up possibilities of further additional resource to the tune of 2000 million tonnes of coal in the extension area.

Groundwater Exploration

Dr. D. Venkat Reddy
National Geophysical Research Institute

Dr. D. Venkat Reddy of National Geophysical Research Institute, Hyderabad has contributed significantly in the field of Groundwater solving different hydrological problems for the last 25 years using innovative tools like environmental isotopes method to estimate ground water recharge, hydrochemical tracers, and Carbon-14 dating. He has been instrumental in delineation of potential groundwater bearing fracture zones in hard rock terrains and assessment of percolation efficiencies of artificial recharge structures in different geological terrains.

Mining Technology

Dr. Promod Kumar Rajameny
Hindustan Zinc Limited

Dr. Promod Kumar Rajameny of Hindustan Zinc Limited, Jawar, Rajasthan has been associated in the mining industry for the last 30 years. He has developed expertise in Mass Blasting and in the field of rock mechanics. His various innovative techniques in the mining of ore at Zawarmala, Zawar Mines, has greatly benefited in the extraction of valuable minerals in mine pillars along with facilitation of ore exploration with sound mining techniques and designs.

Shri Vinay Kumar Singh
Coal India Limited

Shri Vinay Kumar Singh of Coal India Limited, Singrauli, Madhya Pradesh has developed and introduced a number of technologies for safe and efficient exploitation of coal. He made blast designs for open cast mines to win the coal from underground and open cast mines simultaneously, standardization of guidelines on blast vibration damage threshold for the safety of surface and below ground structures, characterization of explosives and rock parameters for optimal explosives energy utilization in rock fragmentation.

Shri Nirmal Chandra Jha
Coal India Limited

Shri Nirmal Chandra Jha of Coal India Limited, Kolkata has introduced new mining technologies in underground and open cast mining, which has led to reversal of the declining trend of coal production from underground mines by introducing of Shortwall Mining Technology, Highwall Mining Technology and increased number of Continuous Miner Technology in different coal mines of CIL.

Mineral Beneficiation

Dr. Surendra Kumar Biswal
Institute of Mineral & Materials Technology

Dr. Surendra Kumar Biswal of Institute of Mineral & Materials Technology, Bhubaneswar as carried out significant R&D work in the field of beneficiation of low grade minerals and ores and utilization of waste, during the past 10 years. He has carried out a number of fundamental as well as applied works related to Column Floatation to improve the design aspects for better performance in terms of quality and quantity for beneficiation of different types of ores/tailing

Stratigraphy, Structural Geology, Palaeontology, Geomorphology, Economic Geology and Geodynamics

Dr. Subir Sarkar
Jadavpur University

Dr. Subir Sarkar of Jadavpur University, Kolkata has carried out very significant work related to Precambrian sedimentology and has led an international group to unravel for the first time, the distinctiveness of Proterozoic Sequence Stratigraphy in contrast to its Phanerozoic counterparts, one of the most typical issues of Precambrian Sequence Stratigraphy.

Dr. Jayant Kumar Tripathi
Jawharlal Nehru University

Dr. Jayant Kumar Tripathi of Jawharlal Nehru University, Delhi has worked on understanding the transformation of rocks into environmentally useful sediments through the process of weathering, transportation and deposition. He has established that fine grained sediments occurring on the Quartzite Delhi ridge are loessic deposits brought from the Thar desert by selective physical sorting by wind during hot arid climates.

Petrology and Geochemistry Including Mineralogy, Geochronology and Isotope Geology

Dr. Jyotiranjan Srichandan Ray
Physical Research Laboratory

Dr. Jyotiranjan Srichandan Ray of Physical Research Laboratory, Ahmedabad has made significant contribution in developing isotope dating methods, using multiple absolute and relative dating techniques using Ar-Ar, Rb-Sr, U-Pb & Sr isotope. His studies have helped in resolving many important chronological issues and controversies in Indian Geology. His landmark contribution of dating the volcanoclastic sediments and carbonates of the Vindhyan Supergroup, has helped in resolving a major scientific controversy of recent times.

Applied Geology

Dr. Anil Vishnupant Kulkarni
Indian Institute of Science

Dr. Anil Vishnupant Kulkarni of Indian Institute of Science, Bengaluru has done pioneering work in the development of satellite based remote sensing technique for snow and glacier studies in India. He has developed techniques, algorithms and models for glacier inventory, mass balance, snow and glacier melt run off, and assessment of flood from glacial lakes of Sutlej, Chenab, Dhauliganga and Tista River basins.

Geophysics / Applied Geophysics

Dr. Parmesh Banerjee
Nanyang Technical University

Dr. Parmesh Banerjee of Nanyang Technical University, Singapore has made significant contribution in generating substantial knowledge regarding the interactions between two active tectonic plates, either colloiding (as in Himalaya), or subsiding (as in Andaman-Sumatra). These, along with his unique studies of gravity field over the Himalaya, led to better assessment of earthquake hazards in NW Himalaya as well as in Andaman and Sumatra regions. His other contribution comes from providing the most reliable measurement of India Tectonic Plate motion.

Dr. M. Ravi Kumar
National Geophysical Research Institute

***Dr. M. Ravi* Kumar** of National Geophysical Research Institute, Hyderabad has made significant contribution in investigating the lithospheric thickness of the Gondwana fragments which has conclusively brought out the relatively thin nature of the Indian shield region thereby resolving an outstanding geodynamic issue pertaining to the causative mechanism for the unique 'fast drift of the Indian plate' during Mesozoic time.

Geo-Environmental Studies

Dr. Sayed Masood Ahmad
National Geophysical Research Institute

Dr. Sayed Masood Ahmad of National Geophysical Research Institute, Hyderabad has generated several new climatic records from the North Indian Ocean and the Indonesian Seas, which are crucial in understanding past climate variability and their forcing mechanisms. He has established state-of-the-art laboratory facilities (viz. Isotope Ratio Mass Spectrometer, ICP-OES, T.O.C. etc.) for paleoclimatic research at the National Geophysical Research Institute.

Disaster Management

Dr. C. P. Rajendran
Indian Institute of Science

Dr. C. P. Rajendran of Indian Institute of Science, Bengaluru has contributed significantly to research in active tectonics, earthquake geology, paleoseismology, and tsunami geology in India. He has carried out collaborative work and cooperation on tsunami hazard, among various researchers from many countries (Chile, Australia, Thailand, Indonesia, Sri Lanka, Oman and Iran). This has led to a major accomplishment in the preparation of a probabilistic tsunami hazard assessment of the Indian Ocean nations.

NATIONAL MINERAL AWARDS-2008

Coal, Lignite and Coal Bed Methane Discovery & Exploration

Shri Pradip Kumar Nanda
Geological Survey of India

Shri Pradip Kumar Nanda of Geological Survey of India, Kolkata has carried out concept based regional exploration for coal in the Talcher Coalfield of Orissa. He and his team members have successfully demarcated thick coal seams at moderately shallow depths with total coal resources of 5.35 billion tonnes in Saradhapur-Tribira and Jalatap areas of central Talcher Coalfield, of which 1.49 billion tonnes occurring within 300m depth

Shri Biplab Kumar Chakraborty
Geological Survey of India

Shri Biplab Kumar Chakraborty of the Geological Survey of India, Kolkata has carried out concept based regional exploration for coal in the Talcher Coalfield of Orissa. He and his team members have successfully demarcated thick coal seams at moderately shallow depths with total coal resources of 5.35 billion tonnes in Saradhapur-Tribira and Jalatap areas of central Talcher Coalfield, of which 1.49 billion tonnes occurring within 300m depth.

Shri Sajal Pal
Geological Survey of India

Shri Sajal Pal of the Geological Survey of India, Kolkata has carried out concept based regional exploration for coal in the Talcher Coalfield of Orissa. He and his team members have successfully demarcated thick coal seams at moderately shallow depths with total coal resources of 5.35 billion tonnes in Saradhapur-Tribira and Jalatap areas of central Talcher Coalfield, of which 1.49 billion tonnes occurring within 300m depth.

Shri Satyanarayan Behera
Geological Survey of India

Shri Satyanarayan Behera of the Geological Survey of India, Kolkata has carried out concept based regional exploration for coal in the Talcher Coalfield of Orissa. He and his team members have successfully demarcated thick coal seams at moderately shallow depths with total coal resources of 5.35 billion tonnes in Saradhapur-Tribira and Jalatap areas of central Talcher Coalfield, of which 1.49 billion tonnes occurring within 300m depth.

Oil, Natural Gas and Gas Hydrates Discovery & Exploration

Professor Tarkeshwar Kumar
Indian School of Mines University

Professor Tarkeshwar Kumar of the Indian School of Mines University, Dhanbad, has made immense contributions towards the advancement of education in Petroleum Engineering and for research leading to enhanced recovery and increased productivity in the oil sector.

Mining Technology

Dr. Autar Krishen Raina
Central Institute of Mining & Fuel Research

Dr. Autar Krishen Raina of the Central Institute of Mining & Fuel Research, Nagpur, has made outstanding contributions in making blasting activity more safe and environment friendly in mining operations that has resulted in enhanced productivity in coal mines.

Dr. Shaitan Singh Rathore
University of Technology & Engineering

Dr. Shaitan Singh Rathore of the University of Technology & Engineering, Udaipur, has carried out outstanding work in developing innovative techniques for dimensional stone mining sector resulting in enhanced productivity, reduction in waste generation and energy consumption.

Stratigraphy, Structural Geology, Palaeontology, Geomorphology, Economic Geology and Geodynamics

Dr. Joydip Mukhopadhyay
Presidency College

Dr. Joydip Mukhopadhyay of the Presidency College, Kolkata, has made contributions in economic geology particularly on the origin of iron and manganese deposits that would have implications in developing future exploration strategy for these deposits.

Professor Tapas Kumar Biswal
Indian Institute of Technology

Professor Tapas Kumar Biswal of the Indian Institute of Technology, Mumbai, has made significant contributions on the understanding of the evolutionary history of the Indian subcontinent through his research on the Eastern Ghats mobile belt.

Petrology and Geochemistry Including Mineralogy, Geochronology and Isotope Geology

Dr. Pulak Sengupta
Jadavpur University

Dr. Pulak Sengupta of the Jadavpur University, Kolkata, has made fundamental contributions on the genesis of high grade metamorphic rocks.

Applied Geology

Dr. Sukanta Roy
National Geophysical Research Institute

Dr. Sukanta Roy of the National Geophysical Research Institute, Hyderabad, has made significant contributions towards better assessment of the geothermal energy potential of the country and developing strategies for its utilization.

Geophysics / Applied Geophysics

Dr. Ajai Manglik
National Geophysical Research Institute

Dr. Ajai Manglik of the National Geophysical Research Institute, Hyderabad, has made significant contributions in theoretical geophysics that has led towards a better understanding of the geological evolution of the Indian subcontinent

Dr. Vishnubhotla Chakravarthi
National Geophysical Research Institute

Dr. Vishnubhotla Chakravarthi of the National Geophysical Research Institute, Hyderabad, has made significant contributions in experimental geophysics that have found wide application in hydrocarbon exploration and has resulted in identification of several potential areas in Gujarat and Central India.

Disaster Management (Team Award)

Dr. Om Prakash Mishra
Geological Survey of India

Dr. Om Prakash Mishra of the Geological Survey of India, Kolkata and his team has made significant contribution for developing a deep insight into the earthquake generating processes through geophysical studies. The public awareness campaigns organized by the team had been helpful in reducing panic and trauma associated with the natural disasters amongst the people of Andamans.

Shri Gautam Kumar Chakrabortty
Geological Survey of India

Shri Gautam Kumar Chakrabortty of the Geological Survey of India, Kolkata and his team has made significant contribution for developing a deep insight into the earthquake generating processes through geophysical studies. The public awareness campaigns organized by the team had been helpful in reducing panic and trauma associated with the natural disasters amongst the people of Andamans.

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Disaster Management

Dr. Sridevi Jade
C-MMACS

Dr. Sridevi Jade of the Centre for Mathematical Modeling and Computer Simulation, Bangalore, has made seminal contributions in the propagation and understanding of global positioning system (GPS) technology related geo-scientific studies in India for earthquake hazard assessment.

NATIONAL MINERAL AWARD – 2007

Coal, Lignite and Coal Bed Methane Discovery & Exploration

Shri P. Kumaraguru
Geological Survey of India

Shri P. Kurmaraguru of the Geological Survey of India has carried out concept oriented exploration to discover lignite deposits in Mannargudi and Ramnad sub-basins of Tamilnadu. The basin analysis studies including interpretation of sub-surface, tectonic and geophysical data coupled with micro facies analysis and palaeotological data, led by him and his team members established 302 million tonnes of lignite deposits and a resource of 1172 million tonnes of lignite in southern and northern parts of the Mannargudi sub-basin.

Shri K. Baskaran
Geological Survey of India

Shri K. Bhaskaran of the Geological Survey of India has carried out concept oriented exploration to discover lignite deposits in Mannargudi and Ramnad sub-basins of Tamilnadu. The basin analysis studies including interpretation of sub-surface, tectonic and geophysical data coupled with micro facies analysis and palaeotological data, led by him and his team members established 302 million tonnes of lignite deposits and a resource of 1172 million tonnes of lignite in southern and northern parts of the Mannargudi sub-basin.

Dr. T.S. Giritharan
Geological Survey of India

Dr. T. S. Giritharan, of the Geological Survey of India has carried out concept oriented exploration to discover lignite deposits in Mannargudi and Ramnad sub-basins of Tamilnadu The basin analysis studies including interpretation of sub-surface, tectonic and geophysical data coupled with micro facies analysis and palaeotological data, led by him and his team members established 302 million tonnes of lignite deposits and a resource of 1172 million tonnes of lignite in southern and northern parts of the Mannargudi sub-basin.

Dr. A. Balukkarasu
Geological Survey of India

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Oil, Natural Gas and Gas Hydrates Discovery

Shri Rajesh Kumar Srivatava
Oil & Natural Gas Corporation Limited

Shri Rajesh Kumar Srivastava of the Oil & Natural Gas Corporation Limited, Dehradun has carried out geological modeling of oil and gas fields of Mumbai-offshore, Assam Shelf, Bengal, Mahanadi and Andaman basins. The field techniques as well as geo-cellular modeling developed by him has lead to the discovery of oil and gas at Kalyanpur in Assam and gas in deep water blocks of Mahanadi. He has been instrumental in accreting more than 100 MMbl of oil plus oil equivalent gas in the extension areas of existing fields of Assam.

Groundwater Exploration

Dr. Nandipati Subba Rao
Andhra University

Professor Nandipati Subba Rao of the Andhra University, Hyderabad has carried out extensive hydrogeological and hydrogeochemical studies in the different parts of Andhra Pradesh. Through remote sensing techniques he has been useful in delineation of groundwater resources in the hard rock terrains. His work on various remedial measures to improve the groundwater quality in rural and urban areas of Guntur, Anantapur and Visakhapatnam districts has been of immense societal value.

Dr. Shivendra Nath Rai
National Geophysical Research Institute

Dr. Shivendra Nath Rai of the National Geophysical Research Institute, Hyderabad has developed new mathematical models that have found application in ground water resource management. He has also made sustained efforts in the field of ground water exploration through geophysical surveys by locating potential zones within and below the Deccan Traps and in the Gondwana Formations in Maharashtra.

Mining Technology

Dr. Pradeep Kumar Singh
Central Mining & Fuel Research Institute

Dr. Pradeep Kumar Singh of the Central Mining & Fuel Research Institute, Dhanbad has carried out research on the stability of underground coal mines and related structures from blast induced vibrations. The predictive models developed by him have helped in enhancing the safety and productivity in coal mines.

Sh. Ashok Kumar Singh
Central Mine Planning And Design Institute

Dr. Ashok Kumar Singh of the Central Mine Planning And Design Institute, Ranchi has been a pioneer in introducing several innovative techniques in the underground mining and promoting mechanization in open cast mines. His adoption of best practices in opencast mine layout with high degree of mechanization has led to successful implementation of Nigahi coal project in Singrauli coalfields for achieving higher coal production.

Mineral Beneficiation

Dr. Barada Kanta Mishra
Institute of Mineral & Materials Technology

Dr. Barda Kanta Mishra of the Institute of Mineral & Materials Technology, Bhubaneshwar and his coworker Dr. Asim Kumar Mukherjee of the Tata Steel, Jamshedpur has done well acclaimed research in mineral engineering. Work done by them has found immense industrial application in improving the quality of coal and iron ores.

Dr. Asim Kumar Mukherjee
Tata Steel

Dr. Asim Kumar Mukherjee of the Tata Steel, Jamshedpur and his coworker Dr. Barda Kanta Mishra of the Institute of Mineral & Materials Technology, Bhubaneshwar has done well acclaimed research in mineral engineering. Work done by them has found immense industrial application in improving the quality of coal and iron ores.

Stratigraphy, Structural Geology, Palaeontology, Geomorphology, Economic Geology and Geodynamics

Professor Dilip Saha
Indian Statistical Institute

Professor Dilip Saha of the Indian Statistical Institute, Kolkata has worked on the theoretical and computational aspect of structural geology besides regional geological synthesis on various Purana basins of India that has thrown immense light on the basin evolution and inversion history. His research on the fabric and microstructures in shallow crustal granites has been helpful in gaining information on continental tectonics and constraining emplacement history.

Professor Abhijit Bhattacharya
Indian Institute of Technology

Dr. Virendra Mani Tiwari
National Geophysical Research Institute

Dr. K.A. Kamesh Raju
National Institute of Oceanography

Dr. Vinay Mohan Choubey
Wadia Institute of Himalayan Geology

Dr. Prantik Mandal
National Geophysical Research Institute

Petrology and Geochemistry including Mineralogy, Geochronology and Isotope Geology

Professor Abhijit Bhattacharya of the Indian Institute of Technology, Kharagpur has carried out outstanding studies on metamorphic petrology and magmatic evolution for constrining the massif anorthosite genesis as well as the nature of craton-mobile belt contact in Eastern India.

Geophysics / Applied Geophysics

Dr. Virendra Mani Tiwari of the National Geophysical Research Institute, Hyderabad has carried out intensive gravity and magnetic studies on different parts of the Indian lithosphere. including southern Indian shield and the Himalaya. The plate tectonics model proposed by him for the Central Indian Suture zone and Aravalli- Delhi fold belt have been internationally recognized.

Dr. K. A. Kamesh Raju of the National Institute of Oceanography, Goa has done innovative research in Marine Geophysics for obtaining a deeper insight into the morpho-tectonic evolution of the Central Indian Ocean Basin. His studies on the role of West Andaman Fault have provided useful information towards the understanding of the mechanisms involved in the earthquakes in the Andaman Sea region.

Geo-Environmental Studies

Dr. Vinay Mohan Choubey of the Wadia Institute of Himalayan Geology, Dehradun has undertaken studies to characterize the behavior of sub-surface radon migration in relation to various geo-environmental conditions in the Himalayan region. Radon emantation Studies carried out by him across landslide profiles helped in landslide hazard assessment and mitigation.

Disaster Management

Dr. Prantik Mandal of the National Geophysical Research Institute, Hyderabad has carried out studies on the various mechanisms involved in the intraplate earthquakes occurring in India. His work on the seismic hazard assessment of Bhuj area and Koyna region by monitoring the aftershocks of region have been extremely useful in the earthquake disaster mitigation in this region.

NATIONAL MINERAL AWARD – 2006

Mineral Discovery & Exploration

Shri Suresh Chander
Geological Survey of India

Shri Suresh Chander of the Geological Survey of India, Jaipur has carried out integrated surveys for gold and associated base metals on the basis of aero-geophysical anomalies in Sanjela-Manpur-Dugocha belt of Udaipur District, Rajastha. He has been successful in locating new target areas for mineralization. His work has led to the estimation of reserves of 1.0 million tones of Gold ore at depths of 100 m in Dugocha Main and North Blocks with average of 2.07 ppm gold.

(Team Award)

Dr. Soney Kurien P
Geological Survey of India

Dr. Soney Kurien P of the Geological Survey of India, Thiruvananthapuram and his coworkers have evolved and executed an exploration strategy that has led to estimation of 2.38 million tonnes gold ore resource (1.25g/t grade) at 0.5 ppm cut off which includes, 1.0 million tonnes (2.52g/t grade) at 1 ppm cut off and 0.26 million tonnes (6.48 g/t grade) at 3 ppm cut off in Lungtu-Parasi- Sindauri area of Ranchi district.

Dr. Radha Nand Singh
Geological Survey of India

Dr. Radha Nand Singh of the Geological Survey of India, Patna and his coworkers have evolved and executed an exploration strategy that has led to estimation of 2.38 million tonnes gold ore resource (1.25g/t grade) at 0.5 ppm cut off which includes, 1.0 million tonnes (2.52g/t grade) at 1 ppm cut off and 0.26 million tonnes (6.48 g/t grade) at 3 ppm cut off in Lungtu- Parasi- Sindauri area of Ranchi district.

Shri Shashi Ranjan
Geological Survey of India

Shri Shashi Ranjan of the Geological Survey of India, Patna and his coworkers have evolved and executed an exploration strategy that has led to estimation of 2.38 million tonnes gold ore resource (1.25g/t grade) at 0.5 ppm cut off which includes, 1.0 million tonnes (2.52g/t grade) at 1 ppm cut off and 0.26 million tonnes (6.48 g/t grade) at 3 ppm cut off in Lungtu- Parasi- Sindauri area of Ranchi district.

Shri Radhika Ranjan Sharan
Geological Survey of India

Shri Radhika Ranjan Sharan of the Geological Survey of India, Patna and his coworkers have evolved and executed an exploration strategy that has led to estimation of 2.38 million tonnes gold ore resource (1.25g/t grade) at 0.5 ppm cut off which includes, 1.0 million tonnes (2.52g/t grade) at 1 ppm cut off and 0.26 million tonnes (6.48 g/t grade) at 3 ppm cut off in Lungtu-Parasi- Sindauri area of Ranchi district

Coal, Lignite and Coal Bed Methane Discovery & Exploration (Team Award)

Dr. Ashutosh Mondal
Geological Survey of India

Dr. Ashutosh Mondal of the Geological Survey of India, Kolkata and his teammates have made valuable addition to the National Coal Inventory by discovering about 400 million tons of superior grade non-coking coal resources at shallow depth in the Malachua, Panwari and Shahpur blocks of Sohagpur Coalfield of Madhya Pradesh. The most noteworthy aspect of this discovery is that about 129.24 million tons of these coal resources lie at the shallow depth and amenable to opencast mining.

Dr. Manas Roy Chowdhury
Geological Survey of India

Dr. Manas Roy Chowdhury of the Geological Survey of India, Kolkata and his teammates have made valuable addition to the National Coal Inventory by discovering about 400 million tons of superior grade non-coking coal resources at shallow depth in the Malachua, Panwari and Shahpur blocks of Sohagpur Coalfield of Madhya Pradesh. The most noteworthy aspect of this discovery is that about 129.24 million tons of these coal resources lie at the shallow depth and amenable to opencast mining.

Dr. Anjan Rai Choudhauri
Geological Survey of India

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Shri Naresh Prasad Patel
Geological Survey of India,
Kolkata

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Shri Subhasis Kabiraj
Geological Survey of India,
Kolkata

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Groundwater Exploration

Dr. Shakeel Ahmed
National Geophysical Research
Institute, Hyderabad

Dr. Shakeel Ahmed of the National Geophysical Research Institute, Hyderabad has developed new methods of geostatistics utilizing easily available parameters for application in groundwater hydrology. He is internationally known for his skill in aquifer modelling and has established an advanced modelling laboratory at NGRI.

Mining Technology

Shri Ramendra Gupta
Uranium Corporation Of India Ltd

Shri Ramendra Gupta of the Uranium Corporation Of India Ltd., Jharkhand has made immense contribution in the field of deep and metal mining technology leading to increased productivity. He has successfully used his long experience in deep underground mines like Kolar for innovative applications in Jaduguguda and Narwapahar mines for achieving an increased supply of uranium to meet the immediate needs of nuclear power programme of the country.

Shri Akhilesh Joshi
Hindustan Zinc Limited

Shri Akhilesh Joshi of the Hindustan Zinc Limited, Udaipur, during his association with Rampura Agucha Mine for past one decade has developed it to be the lowest cost producer for zinc and among one of the highly productive mines of the world. His dedicated efforts and technological skills have resulted in the enhancement of lead and zinc resources of the country by around 52 million tonnes.

Dr. Ran Vijay Kumar Singh
Central Mining Research Institute

Dr. Ran Vijay Kumar Singh of the Central Mining Research Institute, Dhanbad has carried out outstanding research & development work for prevention and control of fire in underground and opencast coal mines. He has developed a fire protective coating material, fire resistant grout pack material for preventing spontaneous heating in coal mines and a mechanised device that can spray fire protective coating material up to a height of 20m and is also capable of coating a large surface area in a very short time.

Mineral Beneficiation

Dr. Swarna Prabhakar
National Metallurgical Laboratory

Dr. Swarna Prabhakar of the National Metallurgical Laboratory, Chennai along with his coworker has done pioneering work in developing fully automated laboratory model, pilot size and semi-commercial flotation columns for beneficiation of various ores and other minerals. These have been successfully used for beneficiation of lead-zinc ores of Dariba and Rampura-Agucha, copper-lead-zinc ore of Ambaji, fluorspar of Kadipani, gold ore of Kolar, low-grade iron ores of Goa and Karnataka, sillimanite of Orissa sands and low-grade limestone deposits of Salem.

Dr. G. Bhaskar Raju
National Metallurgical Laboratory

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Stratigraphy, Structural Geology, Palaeontology, Geomorphology, Economic Geology and Geodynamics

Dr. Talari Ramakrishnaiah Chetty
National Geophysical Research Institute

Dr. Talari Ramakrishnaiah Chetty of the National Geophysical Research Institute, Hyderabad has carried out extensive research by combining field geology and geophysics with modern techniques for obtaining a better understanding of the Precambrian structural and geodynamic processes. His studiess on the Cauvery Shear Zone System, Eastern Ghats Mobile Belt and the Southern granulite terrain has provided useful information for the reconstruction models of Rodinia and Gondwana Supercontinents.

Petrology, Geochemistry Including Mineralogy, Geochronology and Isotope Geology

Dr. Anil Kumar
National Geophysical Research Institute

Dr. Anil Kumar, Scientist of the National Geophysical Research Institute, Hyderabad is credited with developing a vast geochronological knowledge base and providing the first precise dating of Sevathur carbonatite (770+20 Ma) and another much older carbonatite (1990 Ma) at Hogenakal besides proposing different mantle compositions for these two. Dr. Kumar's work on precise dating of the primitive Piplia Kalan meteorite at 4.570±0.019 Ga is also widely recognized.

Applied Geology

Professor T. N. Singh
Indian Institute Of Technology

Professor T. N. Singh of the Indian Institute Of Technology, Mumbai has done extensive research in the field of engineering geology, rock mechanics and environmental geotechnology. He is credited for developing instrumentation for large underground excavations made during the construction of hydroelectric power projects in difficult terrains of Himalaya and carrying out pioneering research on various aspects of rock blasting.

Geophysics / Applied Geophysics

Dr. Hari Venkata Ram Babu
National Geophysical Research Institute

Dr. Hari Venkata Ram Babu of the National Geophysical Research Institute, Hyderabad has done extensive studies on the interpretation of regional gravity and aeromagnetic data over various parts of India including Gadarwara in the Vindhyan basin that has led to the identification of sulphide mineralization, Kalyandurg area that resulted in discovery of a few more kimberlites besides locating deep-seated uranium deposits in the Vindhyan basin

Ocean Development

Dr. Ram Krishna Tiwari
National Geophysical Research Institute

Dr. Ram Krishna Tiwari of the National Geophysical Research Institute, Hyderabad has done outstanding research on global coupled earth system processes utilizing latest technology including spectral analyses and non-linear dynamical system theory. His work has enhanced our understanding on the the issues of global changes and the climatic variability

Geo-Information System

Dr. Bishwajit Chakraborty
National Institute Of Oceanography

Dr. Bishwajit Chakraborty of the National Institute Of Oceanography, Goa has done outstanding work in development of software packages for application in marine geology. The Artificial Neural Network (ANN) method developed by him is useful in quick demarcation of the seafloor sediment type.

NATIONAL MINERAL AWARD – 2005

Mineral Discovery and Exploration
(Team Award)

Dr. Kameswara Rao Tadicherla
Geological Survey of India

Dr. Kameswara Rao Tadicherla the Geological Survey of India, Hyderabad along with his team members has carried out invigorative search with a conceptual approach and was successful in locating diamondiferous kimberlite pipes in Kurnool and Anantapur districts of Andhra Pradesh. The Timmasamudram kimberlite pipe (TK-4) located by his team is of immense economic significance with recovery of hundred percent gem quality diamonds.

Shri V. Srinivas Chowdhary
Geological Survey of India

Shri V. Srinivas Chowdhary of the of the Geological Survey of India, Hyderabad along with his team members has carried out invigorative search with a conceptual approach and was successful in locating diamondiferous kimberlite pipes in Kurnool and Anantapur districts of Andhra Pradesh. The Timmasamudram kimberlite pipe (TK-4) located by his team is of immense economic significance with recovery of hundred percent gem quality diamonds.

Shri M. Sridhar
Geological Survey of India

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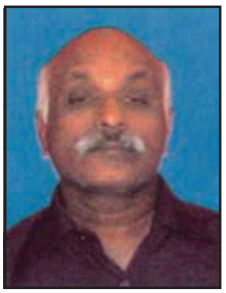

Shri Nalabolu Suryanarayana Reddy
Geological Survey of India

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Shri Krishan Kant Sinha
Geological Survey of India

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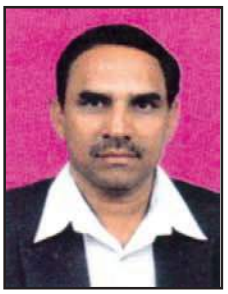
Mineral Exploration (Team Award)

Dr. Surendra Singh Garhia
Geological Survey of India

Dr. Surendra Singh Garhia of the Geological Survey of India, Jaipur along with his co-workers has made dedicated efforts in gold exploration activities in Rajasthan and have established gold reserves of 40.49 million tonness in Bhukia gold prospect from surface to 150 m vertical depth with 2.02 ppm average gold content containing 81.58 tons gold metal at 0.5 ppm cut-off grade.

Dr. Dipendu Bhushan Guha
Geological Survey of India

Dr. Dipendu Bhushan Guha of the Geological Survey of India, Jaipur along with his co-workers has made dedicated efforts in gold exploration activities in Rajasthan and have established gold reserves of 40.49 million tonness in Bhukia gold prospect from surface to 150 m vertical depth with 2.02 ppm average gold content containing 81.58 tons gold metal at 0.5 ppm cut-off grade.



Shri Ram Lal Jat
Geological Survey of India

Shri Ram Lal Jat of the Geological Survey of India, Jaipur along with his co-workers has made dedicated efforts in gold exploration activities in Rajasthan and have established gold reserves of 40.49 million tonness in Bhukia gold prospect from surface to 150 m vertical depth with 2.02 ppm average gold content containing 81.58 tons gold metal at 0.5 ppm cut-off grade.

Mining Technology

Dr. Pijush Pal Roy
Central Mining & Fuel Research Institute

Dr. Pijush Pal Roy of the Central Mining Research Institute, Dhanbad, has carried out outstanding work on conduction of eco-friendly blasting operations with conventional blasting accessories and non-electric initiating devices for enhanced production and productivity.

Mineral Beneficiation

Dr. Raghavan Pattathil
Regional Research Laboratory

Dr. Raghavan Pattathil of the Regional Research Laboratory, Thiruananthapuram, has made significant contribution in generating knowledge on the floatation separation of impurities from China Clay besides beneficiation of other minerals such as ilmenite and silica sand.

Stratigraphy, Structural Geology, Palaeontology, Geomorphology, Economic Geology and Geodynamics

Professor Biswajit Mishra
Indian Institute Technology

Professor Biswajit Mishra of the Indian Institute of Technology, Kharagpur, has made an exhaustive research in theoretical and experimental sulfide mineralogy. His studies have provided new scientific rationale for genesis of diverse ore deposits.

Stratigraphy, Structural Geology, Palaeontology, Geomorphology, Economic Geology and Geodynamics (Shared Award)

Professor Hari Bahadur Srivastava
Indian Institute of Technology

Professor Hari Bahadur Srivastava of the Banaras Hindu University, Varanasi has evolved conceptual models on the process of lithospheric deformation as a result of collision of Indian plate with Asian plate providing a critical insight into the geodynamics of Himalayas.

Dr. Rohtash Kumar
Wadia Institute of Himalayan Geology

Dr. Rohtash Kumar of the Wadia Institute of Himalayan Geology, Dehradun, along with his team members has developed the multi-technique integrated approach to resolve the significant problems in the understanding of the Late Neogene tectonic and climatic evolution of the Himalayan Foreland Basin. The research work by his team is of great significance in socio-economic planning and developmental aspects of the Himalayan region.

Dr. Sumit K. Ghosh
Wadia Institute of Himalayan Geology

Dr. Sumit K. Ghosh, Scientist- E of the Wadia Institute of Himalayan Geology, Dehradun, along with his team members has developed the multi-technique integrated approach to resolve the significant problems in the understanding of the Late Neogene tectonic and climatic evolution of the Himalayan Foreland Basin. The research work by his team is of great significance in socio-economic planning and developmental aspects of the Himalayan region.

Dr. Satish J. Sangode
Wadia Institute of Himalayan Geology

Dr. Satish J. Sangode of the Wadia Institute of Himalayan Geology, Dehradun, along with his team members has developed the multi-technique integrated approach to resolve the significant problems in the understanding of the Late Neogene tectonic and climatic evolution of the Himalayan Foreland Basin. The research work by his team is of great significance in socio-economic planning and developmental aspects of the Himalayan region

Applied Geology

Dr. Shailesh Nayak
Indian Space Research Organisation

Dr. Shailesh Nayak of the Indian Space Research Organisation, Ahmedabad, has done extensive work in the development of techniques and algorithms using Indian Remote Sensing (IRS) satellite data for the coastal zone management and sustainable use of marine living resources. GIS-based models developed by him are now being used for identifying vulnerable and environmentally sensitive areas besides the sites for aquaculture and industries.

Dr. N. Sundararajan
Osmania University

Geophysics / Applied Geophysics

Dr. N. Sundararajan of the Osmania University ,Hyderabad has done outstanding research in designing tools and techniques for processing and interpretation of geophysical data. The "Sundararajan Transform" developed by him paves way for interpretation of potential field data when the conventional method fails to yield a viable solution..

Dr. N.V. Chalapathi Rao
Indian Bureau of Mines

Geochemistry as Applied to Earth Sciences, Geochronology, Isotope Geology

Dr. N.V.Chalapathi Rao of the Indian Bureau of Mines, Nagpur, has carried out extensive research work leading to the recognition and genesis of the kimberlites in southern India and within the Eastern Ghat mobile belt. The Sr and Nd isotopic studies undertaken by Dr. Rao have shown the existence of an anomalously enriched mantle beneath the Cuddapah basin and its northeastern margin. He also explained, India's most celebrated diamondiferous ultramafic pipe at Majhgawan in Panna area to be a transitional variety.

Dr. Govind Joseph Chakrapani
Indian Institute of Technology

Environmental Geosciences and Management Studies

Dr. Govind Joseph Chakrapani of the Indian Institute of Technology, Roorkee, has done outstanding research on the rivers and lake systems of India through sediment and chemical mass balance, heavy metals fractionation and radioisotopic signatures. Dr. Chakrapani related the Himalayan uplift with the osmium isotopic compositions in the oceans through geochemical models. He reported the strontium isotopic compositions and dissolved trace elements in Himalayan lakes establishing their toxic potential.

Dr. Imtiyaz Ahmed Parvez
C-MMACS

Disaster Management

Dr. Imtiyaz Ahmed Parvez of the Centre for Mathematical Modelling and Computer Simulation, Bangalore, has done pioneering work on the probabilistic assessment of earthquake hazard. He has used his models for the Indian subcontinent, North-East Indian Peninsula and Hindukush region and defined the probability of occurrences of the future earthquake during a specified interval of time.

Ocean Development

Dr. Abhey Ram Bansal
National Geophysical Research Institute

Dr. Abhey Ram Bansal of the National Geophysical Research Institute, Hyderabad, has been instrumental in the derivation of a high-resolution, free air gravity data for Indian Ocean from the geodetic mission of ERS1 and GEOSAT. This data set has been used in terms of isostatic compensation of submarine features in the Indian Ocean and their geodynamical implications.

Studies on Oil & Natural Gas Discovery, Exploration

Shri Lehmbar Singh
Oil&Natural Gas Corporation Ltd.

Shri Lehmbar Singh of the Oil & Natural Gas Corporation Ltd., Ahmedabad, has put in dedicated efforts resulting into a phenomenal rise of 20% in oil production from Ahmedabad Asset of ONGC. He has also been instrumental in the discovery of three new oil fields namely Nambar, Safrai and Panidhing in the Eastern region.

Dr. Kalachand Sain
Oil & Natural Gas Corporation

Dr. Kalachand Sain of the National Geophysical Research Institute, Hyderabad has made valuable contribution through investigations of gas hydrates along the continental margins of India and imaging Mesozoic sediments below basalt cover in Western India. His research includes delineation of ~200-350 m thick 'free-gas' zone beneath ~160 m thick hydrated sediments in the Arabian Sea besides gas-hydrate bearing structure in the western offshore (Kerala-Konkan basin) of India.

NATIONAL MINERAL AWARD – 2004

Mineral Discovery

Dr. R.K. Sharma
Geological Survey of India

Dr. R.K. Sharma of the Geological Survey of India, Jaipur, has located for the first time a gold bearing Copper deposit in a new geological setting in Dausa district of Rajasthan in the Archaean basement rocks. This finding would contribute additional reserves of about 4 million tonnes of copper with average copper content of about 1.08% along with average gold concentration of 0.8 ppm.

Mining Technology

Dr. Hindupur Srinivas Venkatesh
National Institute of Rock Machanics

Dr. Hindupur Srinivas Venkatesh of the National Institute of Rock Machanics, Karnataka, has made significant contribution in the field of mining technology through his innovative research in excavation and controlled rock blasting for mining and civil engineering projects.

Dr. Jagdish Kumar Mohnot
Central Mining Research Institute

Dr. Jagdish Kumar Mohnot of the Central Mining Research Institute, Roorkee, has made significant contribution in the field of mining technology by developing a new mathematical mine planning model which helped in quick and economic evaluation of mining ventures.

Mineral Beneficiation

Dr. Swapan Kumar Pan
Steel Authority of India Limited

Dr. Swapan Kumar Pan of the Steel Authority of India Limited, Ranchi, along with his teammate, has developed an expertise in mineral beneficiation for upgradation of iron ore through application of innovative technology. The work carried out by the team has augmented the recovery of fines from the waste and their enrichment from 55% to 64% iron content.

Dr, Manish Jain
Steel Authority of India Limited

Dr. Manish Jain of the Steel Authority of India Limited, Ranchi, along with his teammate, has developed an expertise in mineral beneficiation for upgradation of iron ore through application of innovative technology. The work carried out by the team has augmented the recovery of fines from the waste and their enrichment from 55% to 64% iron content.

Geoinformation System

Shri P.K. Mittal
Oil & Natural Gas Corporation Limited

Shri P.K. Mittal of the Oil & Natural Gas Corporation Limited, Dehradun, has made remarkable contribution in the field of geo-information system through development of a number of softwares applicable to oil exploration and geological mapping. These include a software package for reserve estimation for oil and gas, computer programme for processing marine gravity-magnetic data and a new algorithm for mis-tie adjustments. This method has been accepted internationally and is widely used in India and abroad.

Geology : Stratiraphy, Structural Geology

Professor Harendra Nath Bhattacharya
Presidency College

Professor Harendra Nath Bhattacharya of the Presidency College, Kolkata has carried out brilliant studies on the evolutionary models of the Damodar Valley coal basin, Agnigundala Sulphide mineralization in the Cuddapah basin, banded-iron-formation hosted iron ores of Chitradurga in Karnataka and lead-zinc sulphide mineralization at Zawar in Rajasthan studies have led to understanding the genetic aspects these deposits.

Dr. Ashok Kumar Dubey
Wadia Institute of Himalayan Geology

Dr. Ashok Kumar Dubey of the Wadia Institute of Himalayan Geology, Dehradun has made significant contribution in the field of structural geology that has helped in refining the structural evolution of Himalayas. Dr. Dubey's experimental work on the deformation patterns has also led to a better understanding of many tectonic features of the Himalayas.

Applied Geology

Dr. R. K. Goel
Central Mining Research Institute

Dr. R. K. Goel of the Central Mining Research Institute has made significant contribution in the field of engineering geology. His work in the area of tunneling and underground space technology has been outstanding. He has proposed new user-friendly and globally acclaimed concepts and correlations in tunnel mechanics. He has patented and marketed two geotechnical instruments.

Dr. Ahsan Absar
Geological Survey of India

Dr. Ahsan Absar of the Geological Survey of India, Shillong, has made significant contribution in the field of geothermal exploration. His conceptual work on numerous geothermal field of Himalayan region in Jammu and Kashmir, Himachal Pradesh, Uttranchal and Haryana has been successfully utilized in formulation of genetic models of geothermal systems and renewable energy development programmes.

Geophysics / Applied Geophysics

Dr. Shyam Sunder Rai
National Geophysical Research Institute

Dr. Shyam Sunder Rai of the National Geophysical Research Institute, Hyderabad, has made valuable contribution in the fields of seismology and geomagnetism by modeling of geophysical data to decipher the crust and mantle structure of India. He is also credited with providing the first seismological evidence of plate tectonics during early Achaean

Ocean Development : Oceanography, Antarctic Research, Marine Geology (Team Award)

Dr. Sharadindu Mukerji
Geological Survey of India

Dr. Sharadindu Mukerji of the Geological Survey of India, Faridabad, along with his teammates, has made valuable contribution in the field of Antarctic geology mapping of Gruber, Payer and Weyprecht mountains of Antarctica. His work on the glaciology of the Antarctic sheet near Schirmacher Oasis and Filchner Ice Shelf is widely acclaimed.

Shri Mervin J. D'Souza
Geological Survey of India

Shri Mervin J. D'Souza of the Geological Survey of India, Faridabad, along with his teammates, has made valuable contribution in the field of Antarctic geology by carrying out detailed petrological studies in various regions of central Dronning Maud Land of East Antarctica.

Shri Arun Chaturvedi
Geological Survey of India

Shri Arun Chaturvedi of the Geological Survey of India, Faridabad, along with his teammates, has made valuable contribution in the field of Antarctic glaciology and paleoclimatic studies through his participation in five Antarctic expeditions. The thermal profiling of glaciers initiated by him has provided useful information on global warming.

Shri Mirza Javed Beg
Geological Survey of India

Shri Mirza Javed Beg of the Geological Survey of India, Faridabad, along with his teammates, has made valuable contribution in the field of Antarctic glaciology including collection of extensive data on the accumulation/ablation and fluctuation of the continental ice margin in the Schirmacher Oasis that has implications on the understanding of the long term climatic changes.

Coal & Lignite Exploration & Discovery (Team Award)

Shri Naresh Nautiyal
Mineral Exploration Corp. Ltd.

Shri Naresh Nautiyal of the Mineral Exploration Corporation Limited, Nagpur, along with his teammates has successfully planned the exploration programme in the sand covered Riri block of Bikaner to establish 224 million tonnes of lignite resources at shallow depths of 93 to 168 m with the thickness of lignite horizons varying between 2 to 54 meters.

Shri Dinesh Chandra Shah
Mineral Exploration Corp. Ltd.

Shri Dinesh Chandra Shah, Manager (Geology) of the Mineral Exploration Corporation Limited, Nagpur, along with his teammates has successfully planned the exploration programme in the sand covered Riri block of Bikaner to establish 224 million tonnes of lignite resources at shallow depths of 93 to 168 m with the thickness of lignite horizons varying between 2 to 54 meters.

Shri Rakesh Kumar Jain
Mineral Exploration Corp. Ltd.

Shri Rakesh Kumar Jain of the Mineral Exploration Corporation Limited, Nagpur, along with his teammates has successfully planned the exploration programme in the sand covered Riri block of Bikaner to establish 224 million tonnes of lignite resources at shallow depths of 93 to 168 m with the thickness of lignite horizons varying between 2 to 54 meters.

Dr. Jayant Sharma
Mineral Exploration Corp. Ltd.

Dr. Jayant Sharma of the Mineral Exploration Corporation Limited, Nagpur, along with his teammates has successfully planned the exploration programme in the sand covered Riri block of Bikaner to establish 224 million tonnes of lignite resources at shallow depths of 93 to 168 m with the thickness of lignite horizons varying between 2 to 54 meters.

Shri Kripa Shankar Prasad
Mineral Exploration Corp. Ltd.

Shri Kripa Shankar Prasad of the Mineral Exploration Corporation Limited, Nagpur, along with his teammates has successfully planned the exploration programme in the sand covered Riri block of Bikaner to establish 224 million tonnes of lignite resources at shallow depths of 93 to 168 m with the thickness of lignite horizons varying between 2 to 54 meters.

Shri K.K.S.R.K.S. Sai
Mineral Exploration Corp. Ltd.

Shri K.K.S.R.K.S. Sai of the Mineral Exploration Corporation Limited, Nagpur, along with his teammates has successfully planned the exploration programme in the sand covered Riri block of Bikaner to establish 224 million tonnes of lignite resources at shallow depths of 93 to 168 m with the thickness of lignite horizons varying between 2 to 54 meters.

Oil & Natural Gas Discover & Exploration

Shri V.S.V. Prasad
Oil and Natural Gas Corp. Ltd.

Shri V.S.V. Prasad of the Oil and Natural Gas Corporation Limited, Chennai has made valuable contribution in the field of oil exploration. He has developed an expertise in the integrated interpretation of 2D/3D seismic data of different basins in India, which has been successfully utilized for risk reduction in many projects. He had been instrumental in identification of a number of future prospects in various basins of India including G-4 (KG Basin), Endamuru, B-28 and Changmaigaon that have led to the augmentation of reserves.

NATIONAL MINERAL AWARD – 2003

Mineral Discovery of Economic and/or Strategic Importance (Team Award)

Shri Ashim Kumar Saha
Geological Survey of India

Shri Ashim Kumar Saha of the Geological Survey of India, Nagpur along with his teammate, has made significant contribution in discovery of Platinum Group of Elements (PGE) in Sakoli Fold Belt, Maharashtra. The work carried out by the team has helped in understanding the complex geological aspects of PGE - Gold - Copper - Uranium - Thorium mineralization in this Belt.

Shri Kanhu Charan Mahapatra
Geological Survey of India

Shri Kanhu Charan Mahapatra of the Geological Survey of India, along with his teammate, has made significant contribution in discovery of Platinum Group of Elements (PGE) in Sakoli Fold Belt, Maharashtra. The work carried out by the team has helped in understanding the complex geological aspects of PGE - Gold - Copper - Uranium - Thorium mineralization in this Belt.

Mineral Exploartion (Team Award)

Shri Ashish Kumar Ghosh Roy
Geological Survey of India

Shri Ashish Kumar Ghosh Roy of the Geological Survey of India, along with his teammates, has successfully carrying out exploration for pollucite, the principal ore of rare metal cesium and associated rare metals in the Purulia district of West Bengal. Exploration work has estimated a reserve of total cesium metal content of 840,000 kg at 0.3% cut off

Shri Pradip Sarkar
Geological Survey of India

Shri Pradip Sarkar of the Geological Survey of India, of the Geological Survey of India, along with his teammates, has successfully carrying out exploration for pollucite, the principal ore of rare metal cesium and associated rare metals in the Purulia district of West Bengal. Exploration work has estimated a reserve of total cesium metal content of 840,000 kg at 0.3% cut off

Shri Krishna Chandra Bandyopadhyay
Geological Survey of India

Shri Krishna Chandra Bandyopadhyay of the Geological Survey of India, along with his teammates, has successfully carrying out exploration for pollucite, the principal ore of rare metal cesium and associated rare metals in the Purulia district of West Bengal. Exploration work has estimated a reserve of total cesium metal content of 840,000 kg at 0.3% cut off

Shri Ravindra Kishore Prasad
Geological Survey of India

Shri Ravindra Kishore Prasad of the Geological Survey of India, along with his teammates, has successfully carrying out exploration for pollucite, the principal ore of rare metal cesium and associated rare metals in the Purulia district of West Bengal. Exploration work has estimated a reserve of total cesium metal content of 840,000 kg at 0.3% cut off

Shri Subrata Sarkar
Geological Survey of India

Shri Subrata Sarkar of the Geological Survey of India, along with his teammates, has successfully carrying out exploration for pollucite, the principal ore of rare metal cesium and associated rare metals in the Purulia district of West Bengal. Exploration work has estimated a reserve of total cesium metal content of 840,000 kg at 0.3% cut off

Dr. Sandip Kumar Som
Geological Survey of India

Dr. Sandip Kumar Som of the Geological Survey of India, along with his teammates, has successfully carrying out exploration for pollucite, the principal ore of rare metal cesium and associated rare metals in the Purulia district of West Bengal. Exploration work has estimated a reserve of total cesium metal content of 840,000 kg at 0.3% cut off

Shri Bhupendra Singh
Geological Survey of India

Shri Bhupendra Singh of the Geological Survey of India, along with his teammates, has successfully carrying out exploration for pollucite, the principal ore of rare metal cesium and associated rare metals in the Purulia district of West Bengal. Exploration work has estimated a reserve of total cesium metal content of 840,000 kg at 0.3% cut off

Mineral Beneficiation, Project Development and Planning Leading to Exploitation of Mineral Resources

Shri Shyamal Bhattacharya
Oil & Natural Gas Corp. Ltd.

Shri Shyamal Bhattacharya of the Oil and Natural Gas Corporation Limited has made significant contributions in exploitation of hydrocarbons through adaptation of state-of-the-art technology and emerging concepts of reservoir engineering.

Mining Technology

Dr. Shri Nath Wahy
R.K. Marble Pvt. Limited

Dr. Shri Nath Wahy the R.K. Marble Pvt. Ltd., Udaipur has made significant contributions in the field of mining technology by developing innovative techniques for the dimensional stone industry leading to substantial increase in production and reduction in waste generation

Shri Satish Chand Agarwal,
Associated Stone Industries Ltd,

Shri Satish Chand Agarwal of the Associated Stone Industries Ltd., Ramganjmandi, Rajasthan, has made valuable contributions in the field of mining technology by developing innovative technologies for insitu cutting and sizing of Kotah stone at the quarry floor with the help of indigenously developed machines resulting in considerable increase in production.

Development, Structuring and Implementation of Information System (Team Award)

Dr. Ashesh Siawal
Oil and Natural Gas Corporation Ltd

Dr. Ashesh Siawal of the Oil and Natural Gas Corporation Ltd., along with his co-workers has compiled a new "Tectonic Map of India" that would be helpful in generating new exploration concepts and priorities for exploration of hydrocarbons. This map would provide a better understanding on the evolution of Indian landmass including various sedimentary basins.

Shri Sanjay Baveja
Oil and Natural Gas Corporation Ltd.

Shri Sanjay Baveja of the Oil and Natural Gas Corporation Ltd., along with his co-workers has compiled a new "Tectonic Map of India" that would be helpful in generating new exploration concepts and priorities for exploration of hydrocarbons. This map would provide a better understanding on the evolution of Indian landmass including various sedimentary basins

Shri Anil Kumar Kaul
Oil and Natural Gas Corporation Ltd.

Shri Anil Kumar Kaul of the Oil and Natural Gas Corporation Ltd., along with his co-workers has compiled a new "Tectonic Map of India" that would be helpful in generating new exploration concepts and priorities for exploration of hydrocarbons. This map would provide a better understanding on the evolution of Indian landmass including various sedimentary basins

Geology : Stratigraphy, Structural Geology, Tectonics Petrology, Paleontology, Mineralogy, Seismotectonics, Remote Sensing

Dr. Ashok kumar Singhvi
Physical Research Laboratory

Dr. Ashok kumar Singhvi of the Physical Research Laboratory, Ahmedabad has made significant contributions in the field of Quaternary stratigraphy and climatology by establishing luminescence dating technique in India. He has applied innovatively applied this technique for obtaining chronometric data for the Thar Desert, Indo-Gangetic plains and several other areas

Dr. G. Parthasarathy
National Geophysical Research Institute

Dr. G. Parthasarathy of the National Geophysical Research Institute, Hyderabad has made valuable contributions in the field of mineralogy by using modern spectroscopic techniques for identification of various minerals that have advanced the understanding of the fundamental geological processes in the earth's crust and mantle.

(Team Award)

Dr. Partha Pratim Chakraborty
Indian School of Mines

Dr. Partha Pratim Chakraborty of the Indian School of Mines, Dhanbad along with his teammates, has carried out extensive field and laboratory studies that have helped in the understanding of the deep crustal and surface depositional processes, in particular the geodynamic models of Ophiolites – Tertirary sediments in Andaman Group of islands and Burma – Java subduction complex.

Dr. Chanam Debojit Singh
Geological Survey of India

Dr. Chanam Debojit Singh of the Geological Survey of India, of the Geological Survey of India, Kolkata along with his teammates, has carried out extensive field and laboratory studies that have helped in the understanding of the deep crustal and surface depositional processes, in particular the geodynamic models of Ophiolites –Tertirary sediments in Andaman Group of islands and Burma – Java subduction complex.

Shri Tapan Pal
Geological Survey of India

Dr. Tapan Pal of the Geological Survey of India, Kolkata along with his teammates, has carried out extensive field and laboratory studies that have helped in the understanding of the deep crustal and surface depositional processes, in particular the geodynamic models of Ophiolites - Tertirary sediments in Andaman Group of island and Burma – Java subduction complex.

Shri Tanay Dutta Gupta
Geological Survey of India

Shri Tanay Dutta Gupta of the Geological Survey of India, Kolkata along with his teammates, has carried out extensive field and laboratory studies that have helped in the understanding of the deep crustal and surface depositional processes, in particular the geodynamic models of Ophiolites – Tertirary sediments in Andaman Group of islands and Burma – Java subduction complex.

Applied Geology

Dr. M. Shyam Prasad
National Institute of Oceanography

Dr. M. Shyam Prasad of the National Institute of Oceanography, Goa has made significant contributions in marine geology by establishing impact microcraters on Australasian microtektites, which is the first such occurrence on any impact ejecta on earth or of any other planetary material, hitherto found only on the lunar soil. He has demonstrated a similarity between the craters found on these microtektites and those found on the Moon.

Geophysics / Applied Geophysics

Dr. Rajender Kumar Chadha
National Geophysical Research Institute

Dr. Rajender Kumar Chadha of the National Geophysical Research Institute, Hyderabad has carried out extensive earthquake forecasting studies in the country leading to quantifying the phenomenon of 'Reservoir Triggered Seismicity'. His research on seismicity has brought out seismically active pockets, which would provide vital inputs in studying the seismic hazards in the Stable Continental Region of India. He shares this award with Shri Prem Ballabh Pandey.

Shri Prem Ballabh Pandey
Oil & Natural Gas Corp. Ltd.

Shri Prem Ballabh Pandey of the Oil & Natural Gas Corporation Ltd., Dehradun has applied seismic techniques in reservoir characterization and delineation of oil & gas fields. His work in Assam – Arakan, Cambay and Jaisalmer basins has led to the identification of various prospects and hydrocarbon reserves. He shares this award with Dr. Rajender Kumar Chadha.

Dr. Jaya Prakash Shrivastava
University of Delhi

Geochemistry as Applied to Earth Science

Dr. Jaya Prakash Shrivastava of the University of Delhi, has done extensive studies on the Deccan Volcanic Province leading to global impact in terms of chemical stratigraphy, age, duration of Deccan volcanism and its palaeoenvironmental implications at Cretaceous – Tertiary boundary. His pioneering research on biogeochemistry and geomicrobiology of copper rich areas from Malanjkhand granitoid, Madhya Pradesh has gained international recognition.

Dr. Ravi Bastia
Reliance Industries Limited

Oil and Natural Gas Exploration & Development

Dr. Ravi Bastia of the Oil and Natural Gas Division, Reliance Industries Limited, Mumbai has made significant contribution by discovering a vast gas field in deep waters of Krishna-Godavari basin with the help of a focused three dimensional seismic survey and their attribute analysis. He is credited with estimating a reserve of 14 trillion cubic feet of gas in this basin.

Shri Jonnalagadda Lakshmi Narasimham
Oil and Natural Gas Corp. Ltd.

Shri Jonnalagadda Lakshmi Narasimham of the Oil and Natural Gas Corporation Limited has made significant achievement in the field of reservoir engineering leading to optimization of oil and gas production from several vital oil and gas fields. He is also credited with establishing a world-class well test interpretation center at Mumbai

NATIONAL MINERAL AWARD – 2002

Mineral Discovery of Economic Andor Strategic Importance (Team Award)

Shri Sanjay Kumar Dutta
Geological Survey of India

Shri Sanjay Kumar Dutta of the Geological Survey of India, Patna along with his teammate, has made significant contribution by discovering gold in Quartz Pebble Conglomerate in East Singhbhum district, Jharkhand, where no surface indication of mineralization was ever reported. About 3.3 km. strike length of this rock has been found to be gold bearing with average grade between 0.43 g/t and 0.77 g/t. in addition to silver, uranium and rare earth minerals.

Shri Md. Wasiul Haque
Geological Survey of India

Shri Md. Wasiul Haque of the Geological Survey of India, Patna along with his teammate, has made significant contribution by discovering gold in Quartz Pebble Conglomerate in East Singhbhum district, Jharkhand, where no surface indication of mineralization was ever reported. About 3.3 km. strike length of this rock has been found to be gold bearing with average grade between 0.43 g/t and 0.77 g/t. in addition to silver, uranium and rare earth minerals.

Mineral Exploration

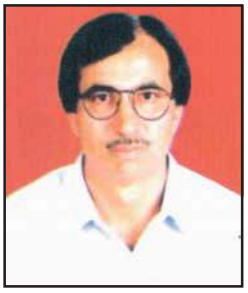
Dr. Reddy Dhana Raju
Department of Atomic Energy

Dr. Reddy Dhana Raju of the Atomic Minerals Directorate for Exploration & Research, Hyderabad has contributed significantly on the Uranium-Thorium-Rare Metal-Rare Earth mineralisation in diverse geological settings in the country. His work has been crucial in understanding the genesis of several uranium deposits including Gogi deposit in Karnataka, Domiasiat deposit in Meghalaya and Tummalapalli – Lakkireddipalle occurrence in Andhra Pradesh.

(Team Award)

Dr. Shyam Sunder
Ameta Geological Survey of India

Dr. Shyam Sunder Ameta of the Geological Survey of India, Jaipur along with his teammate, has located a lead-zinc deposit concealed under 150-200 m thick barren rock cover and having no geophysical indications, in Rajsamand district, Rajasthan. He along with his co-worker has estimated 18.63 million tonnes of ore reserves averaging 5.20% Pb+Zn for this ore body



Shri Brij Bhushan Sharma
Geological Survey of India

Shri Brij Bhushan Sharma of the Geological Survey of India, Jaipur along with his teammate, has located a lead-zinc deposit concealed under 150-200 m thick barren rock cover and having no geophysical indications, in Rajsamand district, Rajasthan. He along with his co-worker has estimated 18.63 million tonnes of ore reserves averaging 5.20% Pb+Zn for this ore body.

Mineral Beneficiation

Dr. Sumantra Bhattacharya
Indian School of Mines

Dr. Sumantra Bhattacharya of the Indian School of Mines, Dhanbad has developed a new "Graphic User Interface" based simulator for heavy media magnetite that has led to 10-20% reduction in magnetite consumption per tonne of coal washed. He has also been credited with Computer Simulation of beneficiation plants for hematitic iron ores and modernization of crushing circuits to maximize the yield of clean coal.

Mining Technology

Dr. Rajendra Singh
Central Mining Research Institute

Dr. Rajendra Singh of the Central Mining Research Institute, Dhanbad has developed suitable indigenous solutions for mining of thick and contiguous coal seams that have been widely recognized. He has carried out extensive investigations to calibrate physical and numerical models for prediction of the behaviour of underground structures under varying geo-mining conditions that have helped in establishing the design norms for underground coal mining in India.

Geology: Stratigraphy, Structural Geology, Tectonics Petrology , Paleontology, Mineralogy, Seismotectonics, Remote Sensing

Dr. Rajiv Sinha
Indian Institute of Technology

Dr. Rajiv Sinha of the Indian Institute of Technology, Kanpur, has done outstanding research on the Indo-Gangetic plains and the Thar Desert (Fluvial Geomorphology & Sedimentology). He is internationally recognized for his work on the Himalayan river systems and the paleoclimatic reconstruction of the Thar desert.

Dr. M.V.S. Guptha
National Institute of Oceanography

Applied Geology

Dr. M.V.S. Guptha of the National Institute of Oceanography, Goa has made significant contribution in Marine Micropaleontology leading to a better understanding of the oceanography of the northern Indian Ocean. His studies on particle flux from both the Arabian Sea and the Bay of Bengal have been of immense help in characterization of various biogeochemical processes operating in the monsoon dominated ocean.

Dr. Baldev Raj Arora
Wadia Institute of Himalayan Geology

Geophysics

Dr. Baldev Raj Arora of the Wadia Institute of Himalayan Geology, Dehradun has made valuable contribution in tracing the tectonic evolution of the Indian shield by inducting Geomagnetic Deep Sounding (GDS) and Long Period Magnetotelluric (LMT) techniques. His extensive studies, covering almost half of the Indian sub-continent have also paved way for preparing the "Electrical Lithospheric Conductance Map of India". He shares the award with Dr. Anil Kumar Chaubey.

Dr. Anil Kumar Chaubey
National Institute of Oceanography

Dr. Anil Kumar Chaubey of the National Institute of Oceanography, Goa has carried out extensive studies on the structure and tectonics of the Bay of Bengal, Central Indian Ocean and off Antarctica. His studies have significantly contributed to the better understanding of the tectonic setting of the Indian Ocean and in preparation of the 'Gas Hydrate Resource Map of India'. He shares the award with Dr. Baldev Raj Arora.

Dr. Appasaheb Dhondiram Nejkar
Geological Survey of India

Geochemistry as Applied to Earth Science

Dr. Appasaheb Dhondiram Nejkar of the Geological Survey of India, along with his co-workers, has made significant contribution in the field of geochemistry of rare earth elements through neutron activation analysis of various rock samples from India, Indian Ocean and Antarctica.

Shri Rattan Singh Bains
Geological Survey of India

Shri Rattan Singh Bains of the Geological Survey of India, Pune along with his co-workers, has made significant contribution in the field of geochemistry of rare earth elements through neutron activation analysis of various rock samples from India, Indian Ocean and Antarctica.

Shri Raosaheb Shrirang Alte
Geological Survey of India

Shri Raosaheb Shrirang Alte of the Geological Survey of India, along with his co-workers, has made significant contribution in the field of geochemistry of rare earth elements through neutron activation analysis of various rock samples from India, Indian Ocean and Antarctica.

Shri Arun Digambar Peshave
Geological Survey of India

Shri Arun Digambar Peshave of the Geological Survey of India, along with his co-workers, has made significant contribution in the field of geochemistry of rare earth elements through neutron activation analysis of various rock samples from India, Indian Ocean and Antarctica.

Miss Kalpana Kashinath Deshmukh
Geological Survey of India

Miss Kalpana Kashinath Deshmukh of the Geological Survey of India, along with her co-workers, has made significant contribution in the field of geochemistry of rare earth elements through neutron activation analysis of various rock samples from India, Indian Ocean and Antarctica.

Geochemistry

Dr.(Mrs.) C. Manikyamba
National Geophysical Research Institute

Dr. (Mrs.) C. Manikyamba of the National Geophysical Research Institute, Hyderabad has made significant contribution to the understanding of the greenstone belts, Archaean crustal growth and related mineralisation through geochemical studies. Dr. MAnikyamba has carried out Nitrogen and Carbon isotopic studies on the kerogen from Archeaen and Proterozoic sedimentary rocks which led her to identify the unequivocal evidence of presence of alkaline basalts in greenstone belts and the role of plumes in the evolution of greenstone belts during Archean.

Applied Geology

Professor Vishwas Shripad Kale
University of Pune

Professor Vishwas Shripad Kale of the University of Pune, has investigated palaeofloods records of some of the large Indian rivers and has provided clear evidence of palaeohydrological and palaeoclimatic changes in the western and central India during the last 2000 years. His studies have significant implications on flood hydrology and flood hazard assessment in India.

NATIONAL MINERAL AWARD – 2001

Mineral Exploration

Dr. J.V.S.S Narayana Murty
Oil and Natural Gas Corp. Ltd.

Dr. J.V.S.S Narayana Murty the Oil and Natural Gas Corporation Limited along with his coworker has made significant contribution in the field of exploration through applications of innovative geophysical techniques in seismic data processing and interpretation. Work of the team has provided a cost effective exploration solution and has also made significant impact by increasing the success ratio in oil exploration.

Shri Parth Partim Mitra
Oil and Natural Gas Corp. Ltd.

Shri Parth Partim Mitra of the Oil and Natural Gas Corporation Limited along with his coworker has made significant contribution in the field of exploration developing indigenous technology in seismic data acquisition, processing, software development and geodata interpretation. Work of the team on seismic interpretation has proved to be immensely helpful in effective reservoir management leading to better recovery of hydrocarbons.

Mineral Beneficiation

Shri Suresh Chandra
National Mineral Development Corp. Ltd.

Shri Suresh Chandra of the National Mineral Development Corporation Limited, along with his teammate has developed technologies for commercial utilization of large quantity of mine wastes generated during mining and mineral beneficiation operations. Work of his team on utilization of waste generated during extraction of diamonds from host Kimberlite rock and conversion of Blue Dust to Ultra Pure Ferric Oxide have found wide application.

Mineral Beneficiation (Team Award)

Dr. Maharaj Kishan Dhar
National Mineral Development Corp. Ltd.

Dr. Maharaj Kishan Dhar of the National Mineral Development Corporation Limited, along with his teammate has developed technologies for commercial utilization of large quantity of mine wastes generated during mining and mineral beneficiation operations. Work of his team on utilization of waste generated during extraction of diamonds from host Kimberlite rock and conversion of Blue Dust to Ultra Pure Ferric Oxide have found wide application.

Mining Technology

Professor Sushil Bhandari
Jai Narain Vyas University

Professor Sushil Bhandari of the Jai Narain Vyas University, Jodhpur has made significant contributions in rock blasting that has helped mining operators in improving productivity. He is an accomplished academician with vast experience of teaching, research and educational administration.

Geology : Stratigraphy, Structural Geology, Tectonics Petrology, Paleontology, Mineralogy, Seismotectonics, Remote Sensing

Dr. Tallavajhala Radhakrishana
Centre for Earth Science Studies

Dr. Tallavajhala Radhakrishana of the Centre for Earth Science Studies, Trivandrum, has made significant contribution in meticulous formulation and execution of the multidisciplinary studies on mafic dykes in South India. He has effectively used the results to enhance understanding of the geotectonic evolution of the South Indian shield with implications on the assembly of the supercontinent.

Dr. Anil Bhandari
Oil and Natural Gas Corporation Limited

Dr. Anil Bhandari of the Oil and Natural Gas Corporation Limited, Dehradun has made valuable contribution in Micropaleantology and Stratigraphy by carrying out reconstruction of sea level fluctuations and paleadepositional models through high resolution Ostracode biozonation. His work has helped in understanding the geological history, petroleum habitat of Cambay, Bombay Offshore, Assam- Arakan and those of Krishna- Godavari and Cauvery Basins besides providing leads to future exploration activities.

Applied Geology

Dr. Pramod Chand Nawani
Geological Survey of India

Dr. Pramod Chand Nawani of the Geological Survey of India, Dehradun has has evolved various innovative geotechnical concepts and techniques for engineering geological modeling that have helped in construction of major hydroelectric projects in Garhwal Himalayas. His efforts have led to saving of enormous excavation and filling thereby reducing the cost of the projects. Dr. Nawani has played a key role in carrying out engineering geological investigations during construction of dam, spillway structures and underground power house complex at Tehri Dam project. The geotechnical datea input generated by him were utilized by the International and Indian experts and high level committees set up by the government of India while finalizing the issues related to design and safety aspects of Tehri Dam.

Geophysics

Dr. S. N. Prasad
National Geophysical Research Institute

Dr. S. N. Prasad of the National Geophysical Research Institute, Hyderabad has made significant contributions in inversion of magnetotelluric and geomagnetic deep sounding data. He is credited with setting up of India's first digital magnetic observatory at NGRI. His researches have been extensively quoted in several research and review papers of international scientists and have also been cited in several books by international publishers.

Dr. Vandrapu Subrahmanyam
National Institute of Oceanography

Dr. Vandrapu Subrahmanyam of the, National Institute of Oceanography, Goa, has made valuable contributions marine geophysics leading to understanding of the crustal structure and tectonic setting of the western continental margin and Bay of Bengal. He has been instrumental in preparation of the Gas Hydrate Resource Map of Indian continental margins besides carrying out comparative studies on deformation of the Central Indian Ocean Basin crust with the tectonic events in the Himalayan region.

Geochemistry as Applied to Earth Science

Dr. Rajesh K.Srivastava
Banaras Hindu University

Dr. Rajesh K.Srivastava of the Banaras Hindu University has done outstanding geochemical studies on alkaline and cornonatite igneous complexes, Precambrian mafic igneous rocks and the Andaman Ophiolite Suite leading to a better understanding of the chemical evolution of the sub-continental lithosphere and mantle.

Professor B. Mahabaleshwar
Bangalore University

Professor B. Mahabaleshwar of the Bangalore University has done extensive work on the geochemical of charnockite suite of rocks, Archaean metasediments and Closepet granite that have increased knowledge base on the thermal structure of Archaean crust as well as the crust-mantle interaction. His work on the granulite facies metamorphic rocks in South India is well recognized.

Environmental Geosciences and Management Studies (Team Award)

Shri Manohar Sinha
Geological Survey of India

Shri Manohar Sinha of the Geological Survey of India, Nagpur along with his teammates has carried out comprehensive studies and suggested suitable remedial and mitigatory measures for fast degrading world heritage monuments of ancient Ajanta and Ellora caves. His team is credited with making a detailed environmental impact assessment to identify various environmental and anthropogenic factors responsible for degradation of caves and creating a comprehensive environmental management plan.

Shri Kotapalli Venkata Rao
Geological Survey of India

Shri Kotapalli Venkata Rao of the Geological Survey of India, Nagpur along with his teammates has carried out comprehensive studies and suggested suitable remedial and mitigatory measures for fast degrading world heritage monuments of ancient Ajanta and Ellora caves. His team is credited with making a detailed environmental impact assessment to identify various environmental and anthropogenic factors responsible for degradation of caves and creating a comprehensive environmental management plan.

Shri Ghanshyam Gonnade
Geological Survey of India

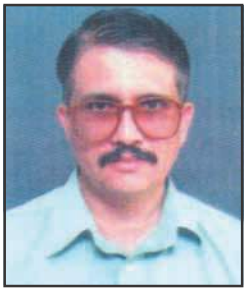
Shri Ghanshyam Gonnade of the Geological Survey of India, Nagpur along with his teammates has carried out comprehensive studies and suggested suitable remedial and mitigatory measures for fast degrading world heritage monuments of ancient Ajanta and Ellora caves. His team is credited with making a detailed environmental impact assessment to identify various environmental and anthropogenic factors responsible for degradation of caves and creating a comprehensive environmental management plan.

Shri Hamza Yusuf Bhai
Geological Survey of India

Shri Hamza Yusuf Bhai of the Geological Survey of India, Nagpur along with his teammates has carried out comprehensive studies and suggested suitable remedial and mitigatory measures for fast degrading world heritage monuments of ancient Ajanta and Ellora caves. His team is credited with making a detailed environmental impact assessment to identify various environmental and anthropogenic factors responsible for degradation of caves and creating a comprehensive environmental management plan.

Shri S. Sekar
Geological Survey of India

Shri S. Sekar of the Geological Survey of India, Nagpur along with his teammates has carried out comprehensive studies and suggested suitable remedial and mitigatory measures for fast degrading world heritage monuments of ancient Ajanta and Ellora caves. His team is credited with making a detailed environmental impact assessment to identify various environmental and anthropogenic factors responsible for degradation of caves and creating a comprehensive environmental management plan.



Shri Chandrashekhar Joshi
Geological Survey of India

Shri Chandrashekhar Joshi of the Geological Survey of India, Nagpur along with his teammates has carried out comprehensive studies and suggested suitable remedial and mitigatory measures for fast degrading world heritage monuments of ancient Ajanta and Ellora caves. His team is credited with making a detailed environmental impact assessment to identify various environmental and anthropogenic factors responsible for degradation of caves and creating a comprehensive environmental management plan.

Shri Prem Babu
Geological Survey of India

Shri Prem Babu of the Geological Survey of India, Nagpur along with his teammates has carried out comprehensive studies and suggested suitable remedial and mitigatory measures for fast degrading world heritage monuments of ancient Ajanta and Ellora caves. His team is credited with making a detailed environmental impact assessment to identify various environmental and anthropogenic factors responsible for degradation of caves and creating a comprehensive environmental management plan.

Professor Gurdeep Singh
Indian School of Mines

Professor Gurdeep Singh of the Indian School of Mines, Dhanbad has made valuable contributions in the area of water, air and solid waste pollution abatement and mitigation measures. He is recognized for his work in teaching, research and industrial application of the environmental management particularly with respect to the mining and allied areas. His research work on low cost treatment of effluents and pumped out mine water besides utilization of coal combustion residues have been widely appreciated.

Shri M.Radhakrishnan
Nayveli Lignite Corp. Ltd.

Dr. R. Hariharan
Nayveli Lignite Corp. Ltd.

Shri M. Krishnan
Nayveli Lignite Corp. Ltd.

Shri S. Kamaraj
Nayveli Lignite Corp. Ltd.

Shri Narendra Kumar Verma
Nayveli Lignite Corp. Ltd.

Coal and Lignite Exploration & Discovery (Team Award)

Shri M. Radhakrishnan of the Nayveli Lignite Corporation Limited, alongwith his teammates has carried out extensive exploration work leading to huge lignite finds in Mannargudi in Tamilnadu and Sidhari in Rajasthan. The sustained efforts of the team has resulted in increasing the resource potential of lignite in Tamilnadu and Rajasthan from 3300 and 100 million tones to 30000 and 2300 million tonnes respectively.

Dr. R. Hariharan of the Nayveli Lignite Corporation Limited, alongwith his teammates has carried out extensive exploration work leading to huge lignite finds in Mannargudi in Tamilnadu and Sidhari in Rajasthan. The sustained efforts of the team has resulted in increasing the resource potential of lignite in Tamilnadu and Rajasthan from 3300 and 100 million tones to 30000 and 2300 million tonnes respectively.

Shri M. Krishnan of the Nayveli Lignite Corporation Limited, alongwith his teammates has carried out extensive exploration work leading to huge lignite finds in Mannargudi in Tamilnadu and Sidhari in Rajasthan. The sustained efforts of the team has resulted in increasing the resource potential of lignite in Tamilnadu and Rajasthan from 3300 and 100 million tones to 30000 and 2300 million tonnes respectively.

Shri S. Kamaraj of the Nayveli Lignite Corporation Limited, alongwith his teammates has carried out extensive exploration work leading to huge lignite finds in Mannargudi in Tamilnadu and Sidhari in Rajasthan. The sustained efforts of the team has resulted in increasing the resource potential of lignite in Tamilnadu and Rajasthan from 3300 and 100 million tones to 30000 and 2300 million tonnes respectively.

Oil and Natural Gas Exploration and Development

Shri Narendra Kumar Verma of the Oil and Natural Gas Corporation Limited has carried out excellent studies in Bombay High that provided new insights into its hydrocarbon potential besides proposing structural models in Northwest Himalaya, Bhutan Foothills and Satpura basins depicting their hydrocarbon potential. He has also undertaken studies in the Caspian region, Myanmar offshore and North Sumatra basin for techno-economic evaluation of new petroleum exploration ventures.

NATIONAL MINERAL AWARD – 2000

Mineral Discovery
(Team Award)

Shri Sreeramachandra Rao Koyalamudy
Geological Survey of India

Shri Sreeramachandra Rao Koyalamudy of the Geological Survey of India, Hyderabad along with his team members has made significant contribution in discovery of gold mineralisation in Jonnagiri Schist Belt, Andhra Pradesh. The team efforts have led to locating gold prospects with probable reserves of 7.77 million tonnes of ores with an average grade of 1.7 g/t Au in Dona East block and 0.70 million tonnes of 4.659 g/t Au in Dona Temple block of this belt.

Shri M.S. Jairam
Geological Survey of India

Shri M.S. Jairam of the Geological Survey of India, Hyderabad along with his team members has made significant contribution in discovery of gold mineralisation in Jonnagiri Schist Belt, Andhra Pradesh. The team efforts have led to locating gold prospects with probable reserves of 7.77 million tones of ores with an average grade of 1.7 g/t Au in Dona East block and 0.70 million tonnes of 4.659 g/t Au in Dona Temple block of this belt.

Shri S. Ananda Murthy
Geological Survey of India,
Kolkata

Shri S. Ananda Murthy of the Geological Survey of India, Hyderabad along with his team members has made significant contribution in discovery of gold mineralisation in Jonnagiri Schist Belt, Andhra Pradesh. The team efforts have led to locating gold prospects with probable reserves of 7.77 million tonnes of ore with an average grade of 1.7 g/t Au in Dona East block and 0.70 million tonnes of 4.659 g/t Au in Dona Temple block of this belt.

Dr. D. Roop Kumar
Geological Survey of India

Dr. D. Roop Kumar of the Geological Survey of India, Hyderabad along with his team members has made significant contribution in discovery of gold mineralisation in Jonnagiri Schist Belt, Andhra Pradesh. The team efforts have led to locating gold prospects with probable reserves of 7.77 million tones of ore with an average grade of 1.7 g/t Au in Dona East block and 0.70 million tonnes of 4.659 g/t Au in Dona Temple block of this belt.

Dr. V. Balaram
National Geophysical Research Institute

Mineral Exploration Including Application of Innovative Geophysical / Geochemical Techniques.

Dr. V. Balaram of the National Geophysical Research Institute, Hyderabad has made significant contribution in the field geochemistry and its application to mineral exploration. He is credited with the development of a highly sophisticated geochemical laboratory at NGRI for generating precise geochemical on various elements.

Shri K. Udaya Bhaskar
Regional Research Laboratory

Mineral Beneficiation

Shri K. Udaya Bhaskar of the Regional Research Laboratory, Bhopal has made significant contribution in the field of mineral beneficiation by establishing 'Water Injection Cyclone' as a development over conventional Hydrocyclone for achieving superior classification with lesser consumption of energy.

Dr. Nikkam Suresh
Indian School of Mines

Dr. Nikkam Suresh of the Indian School of Mines, Dhanbad has made significant improvement in performance of several types of mineral beneficiation plants. He has been instrumental in developing predictive mathematical models to describe the behaviour of fines and water in Mineral / Coal Floatation System.

Dr. Singam Jayanthu
National Institute of Rock Mechanics

Mining Technology

Dr. Singam Jayanthu of the National Institute of Rock Mechanics, Kolar Gold Fields, Karnataka has made significant contribution in the field of mining technology to ensure optimal exploitation of multiple and thick coal reserves in a number of coal fields. He has successfully designed support system in multiple coal seam workings resulting in faster extraction with about 80% recovery.

Development, Structuring and Implementation of Information Systems

Dr. J. Simhachalam
Geological Survey of India

Dr. J. Simhachalam of the Geological Survey of India, Hyderabad has made significant contribution in the field of geoinformation with creation of a database for exploration data of green stone belts of South India and designing different components of the National Geoscientific Database Project at GSI, Hyderabad.

Geology: Stratigraphy, Structural Geology (Team Award)

Dr. Shailendra Mehra
Geological Survey of India

Dr. Shailendra Mehra of the Geological Survey of India, Lucknow along with his team members has made significant contribution through paleontological studies in Himachal Pradesh for facilitating regional geological correlation.

Dr. Vijay Prakash Mishra
Geological Survey of India

Dr. Vijay Prakash Mishra of the Geological Survey of India, Lucknow along with his team members has made significant contribution through paleontological studies in Himachal Pradesh for facilitating regional geological correlation.

Dr. Anil Kumar Mathur
Geological Survey of India

Dr. Anil Kumar Mathur of the Geological Survey of India, Lucknow along with his team members has made significant contribution through paleontological studies in Himachal Pradesh for facilitating regional geological correlation.

Dr. Ajoy Kumar Moitra
Geological Survey of India

Dr. Ajoy Kumar Moitra of the Geological Survey of India, Lucknow along with his team members has made significant contribution through paleontological studies in Himachal Pradesh for facilitating regional geological correlation.

Dr. P. Yadagiri
Geological Survey of India

Dr. P. Yadagiri of the Geological Survey of India, Lucknow along with his team members has made significant contribution through paleontological studies in Himachal Pradesh for facilitating regional geological correlation.

Geology : Stratigraphy, Structural Geology

Professor Deepak Chandra Srivastava
Indian Institute of Technology

Professor Deepak Chandra Srivastava, of the Indian Institute of Technology, Roorkee has made valuable contribution in the field of structural geology. His research work in central Rajasthan and Singhbhum shear zone in Bihar as well in the Himalayas is widely appreciated. His recent work proposing thin-skinned tectoincs in the Precambrian terrain of Rajasthan has been widely appreciated.

Dr. Anil Kumar Gupta
Indian Institute of Technology

Dr. Anil Kumar Gupta of the Indian Institute of Technology, Kharagpur has made valuable contribution in the field of marine micropalaeontological studies of the Indian Ocean. His innovative research has led to a better understanding of changes in the Indian monsoon system on various time scales.

Geophysics – Application of Geophysical Methods

Shri Gautam Sen
Oil and Natural Gas Corp. Ltd.

Shri Gautam Sen of the Oil and Natural Gas Corporation Limited, Mumbai has made significant contribution in processing of 3-D seismic data by developing various innovative techniques. He has conducted integrated studies leading to better understanding of the reservoir facies of Mukta and Neelam oil fields.

Professor Sukhendu Dey
Indian School of Mines

Professor Sukhendu Dey of the Indian School of Mines, Dhanbad has made valuable contribution in the field of theoretical seismology. His studies may help in more accurate prediction and determination of magnitude of earthquakes besides devising a new controlling method of the destruction.

Geochemistry as Applied to Earth Science

Dr. M. Jayananda
Bangalore University

Dr. M. Jayananda Department of Geology of the Bangalore University has done pioneering studies on the evaluation of the Archaean continental crust by combining petrological and structural studies with geochemical and geochronological work. His research has also helped in understanding the structural evolution the Karnataka craton and granulite metamorphism.

Professor Dhiraj Mohan Banerjee
University of Delhi

Professor Dhiraj Mohan Banerjee of the University of Delhi has carried out outstanding work on geochemical aspects of various Indian phosphorites and other sediments that have led towards meaningful interpretation of paleo-environmental changes across the era-boundaries. The geochemical studies undertaken by Dr. Banerjee led to the development of a global model helping the discovery of new phosphorite deposits in Angola and Argentina.

Environmental Geosciences (Team Award)

Shri Ram Kumar Chaturvedi
Geological Survey of India

Shri Ram Kumar Chaturvedi of the Geological Survey of India, Jabalpur along with his colleagues has made significant contribution in carrying out seismotectonic investigations of the Jabalpur earthquake. The team has also helped in the establishment of Broad Band Seismic observatory at Jabalpur which facilitates collection of valuable data on seismic activity in this sensitive Son-Narmada-Tapti seismic zone.

Shri S.D. Pimprikar
Geological Survey of India

Shri S.D. Pimprikar of the Geological Survey of India, Jabalpur along with his colleagues has made significant contribution in carrying out seismotectonic investigations of the Jabalpur earthquake. The team has also helped in the establishment of Broad Band Seismic observatory at Jabalpur which facilitates collection of valuable data on seismic activity in this sensitive Son-Narmada-Tapti seismic zone.

Shri Pabolu Ramachandra Rao
Geological Survey of India

Shri Pabolu Ramachandra Rao of the Geological Survey of India, Jabalpur along with his colleagues has made significant contribution in carrying out seismotectonic investigations of the Jabalpur earthquake. The team has also helped in the establishment of Broad Band Seismic observatory at Jabalpur which facilitates collection of valuable data on seismic activity in this sensitive Son-Narmada-Tapti seismic zone.

Coal and Lignite Exploration (Team Award)

Shri James Peters
Oil and Natural Gas Corp. Ltd.

Shri James Peters of the Oil and Natural Gas Corporation Limited, Dehradun along with his team has carried out pioneering work in the study of Mumbai offshore basin. He has also contributed towards analysis of Satpura basin and application of Coal Bed Methane technology in the India.

Shri P.N. Hajra
Oil and Natural Gas Corp. Ltd.

Shri P.N. Hajra of the Oil and Natural Gas Corporation Limited, Dehradun along with his team has made significant contribution in exploring the Coal Bed Methane potential with the application of laboratory R&D practices to the actual area of operation for exploration. He is credited with designing suitable equipments for use, specifically in coal-core evaluation at reservoir condition

Dr. Sushanta Kumar Das
Oil and Natural Gas Corp. Ltd.

Dr. Sushanta Kumar Das of the Oil and Natural Gas Corporation Limited, Dehradun along with his team has carried out pioneering work in the study of Mumbai offshore basin. He has also contributed towards analysis of Satpura basin and application of Coal Bed Methane technology in the India.

Shri Debashis Das
Oil and Natural Gas Corp. Ltd.

Shri Debashis Das of the Oil and Natural Gas Corporation Limited, Dehradun along with his team has carried out pioneering work in the study of Mumbai offshore basin. He has also contributed towards analysis of Satpura basin and application of Coal Bed Methane technology in the India.

Oil & Natural Gas Exploration & Development

Dr. Joydev Kundu
Oil and Natural Gas Corp. Ltd.

Dr. Joydev Kundu of the Oil and Natural Gas Corporation Limited, Dehradun has made outstanding contribution in the field of exploration and exploitation of hydrocarbon resources including estimation of hydrocarbon reserves in Mumbai Offshore basin and mapping six new medium sized hydrocarbon prospects in upper Assam.

NATIONAL MINERAL AWARD – 1999

Mineral Discovery (Team Award)

Shri Sundar Achuta Pandit
Atomic Mineral Division

Shri Sundar Achuta Pandit of the Atomic Mineral Division, Hyderabad along with his coworker has carried out systematic radiometric survey including gamma ray logging of bore wells that has led to the discovery of Gogi uranium deposit in Gulbarga district of Karnataka. Studies done by the team has established uranium mineralization over a strike length of 1800m.

Dr. Kiran Kumar Achar
Atomic Mineral Division

Dr. Kiran Kumar Achar of the Atomic Mineral Division, Hyderabad along with his coworker has carried out systematic radiometric survey including gamma ray logging of bore wells that has led to the discovery of Gogi uranium deposit in Gulbarga district of Karnataka. Studies done by the team has established uranium mineralization over a strike length of 1800m.

Shri Venkatachalam Natarajan
Atomic Mineral Division

Shri Venkatachalam Natarajan of the Atomic Mineral Division, Hyderabad along with his coworker has carried out systematic radiometric survey including gamma ray logging of bore wells that has led to the discovery of Gogi uranium deposit in Gulbarga district of Karnataka. Studies done by the team has established uranium mineralization over a strike length of 1800m.

Dr. M. S. Rao
Geological Survey of India

Dr. M. S. Rao of the Geological Survey of India, Bangalore has added 25000 high precision whole rock analyses to the geochemical data base of the country that has immensely helped in refining rock nomenclature. He is credited with establishing stable isotope and fluid inclusion laboratories in the Geological Survey of India for carrying out ore deposit modelling

Dr. R. Bhima Rao
Regional Research Laboratory

Mineral Beneficiation

Dr. R. Bhima Rao of the Regional Research Laboratory, Bhubaneswar has made significant contributions in laboratory and plant trials for selection of additives in mineral grinding for optimizing the unit operations of various industries. His work has led towards reduction in power consumption, improved output of the mill and better recovery of the products in sillimanite, graphite and magnesite industries.

Dr. Rama Nand Gupta
National Institute of Rock Mechanics

Mining Technology

Dr. Rama Nand Gupta of the National Institute of Rock Mechanics, Karnataka has made significant contributions towards improvement of roof conditions and support systems resulting in increased production in the underground mines. He is one of the pioneers in use of controlled blasting techniques in mines located in inhabited area.

Shri Bimal Kumar Bandyopadhyay
Geological Survey of India

Development, Structuring and Implementation of Information Systems (Team Award)

Shri Bimal Kumar Bandyopadhyay of the Geological Survey of India, Nagpur alongwith his colleagues has prepared a multidisciplinary geo-scientific database of Central India and converted it to a digital multilayered database in GIS domain. It would be of immense help in mineral targeting and exploration.

Dr. Ravi Shanker Shukla
Geological Survey of India

Dr. Ravi Shanker Shukla of the Geological Survey of India, Nagpur alongwith his colleagues has prepared a multidisciplinary geo-scientific database of Central India and converted it to a digital multilayered database in GIS domain. It would be of immense help in mineral targeting and exploration.

Dr. Subrata Chakraborti
Geological Survey of India

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Shri Praveen Kumar
Geological Survey of India

Shri Praveen Kumar Sinha of the Geological Survey of India, Nagpur alongwith his colleagues has prepared a multidisciplinary geo-scientific database of Central India and converted it to a digital multilayered database in GIS domain. It would be of immense help in mineral targeting and exploration.

Shri *Amiya Kumar* Huin
Geological Survey of India

Shri Amiya Kumar Huin of the Geological Survey of India, Nagpur alongwith his colleagues has prepared a multidisciplinary geo-scientific database of Central India and converted it to a digital multilayered database in GIS domain. It would be of immense help in mineral targeting and exploration.

Geology : Stratigarphy, Structural Geology, Tectonics, Petrology, Palaeontology, Mineralogy, Seismotectonics, Remote Sensing etc.

Professor Surendra Kumar
Lucknow University

Professor Surendra Kumar of the Lucknow University has carried out outstanding paleontological studies on Vindhyan Supergroup, Krol Formation and Deoban Limestone that have led to better understanding of biostratigraphy and evolution of Precambrian life.

(Team Award)

Dr. H. M. Ramachandra
Geological Survey of India

Dr. H. M. Ramachandra of the Geological Survey of India, Nagpur has carried out extensive studies in different parts of Central India and has evolved a tectono-magmatic model for unraveling the complex evolutionary history of the Central India.

Dr. Anupam Chattopadhyay
Geological Survey of India

Dr. Anupam Chattopadhyay of the Geological Survey of India, Nagpur has carried out extensive studies in different parts of Central India and has evolved a tectono-magmatic model for unraveling the complex evolutionary history of the Central India.

Dr. Santanu Kumar Bhowmik
Geological Survey of India

Dr. Santanu Kumar Bhowmik of the Geological Survey of India, Nagpur has carried out extensive studies in different parts of Central India and has evolved a tectono-magmatic model for unraveling the complex evolutionary history of the Central India.

Shri Abdul Sattar Khan
Geological Survey of India

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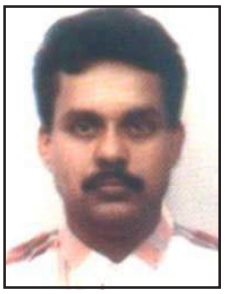


Dr. Taraknath Pal
Geological Survey of India

Dr. Taraknath Pal of the Geological Survey of India, Nagpur has carried out extensive studies in different parts of Central India and has evolved a tectono-magmatic model for unraveling the complex evolutionary history of the Central India.

Geophysics

Dr. Sankar Kumar Nath
Indian Institute of Technology

Dr. Sankar Kumar Nath of the Indian Institute of Technology, Kharagpur has applied geophysical concepts in seismic prospecting, earthquake seismology, geophysical tomography and groundwater geophysics. His studies have resulted in efficient exploration of petroleum/ as and ground water reservoirs besides assisting in hazard mitigation in mines and earthquake prone areas.

Dr. Harish Chandra Tewari
National Geophysical Research Institute

Dr. Harish Chandra Tewari of the National Geophysical Research Institute, Hyderabad has done identification of low velocity sediments underlying high velocity rocks by direct approach seismic survey resulting in delineation of Mesozoic rocks under Deccan Trap in Saurashtra, Kutch and Narmada regions.

Geochemistry

Dr. Anindya Sarkar
Indian School of Mines

Dr. Anindya Sarkar of the Indian School of Mines, Dhanbad has done various types of geochemical that have made significant impact on paleo-climate, paleo-stratigraphy and post monsoonal changes. His work on anoxicity of deep ocean water during last ice age explains mechanism of uranium fixation in sedimentary/aqueous environment.

Mrs. Nuzhath Joeman Thomas
Oil and Natural Gas Corp. Ltd.

Mrs. Nuzhath Joeman Thomas of the Oil and Natural Gas Corporation Limited, Dehradun has done extensive studies in different petroleum bearing basins of India that have helped in devising exploration strategies and prioritizing prospects. She is also credited with developing software and geochemical database for application in petroleum exploration.

Coal & Lignite Exploration and Development

Dr. Atul Kumar Varma
Indian School of Mines

Dr. Atul Kumar Varma of the Indian School of Mines, Dhanbad has done research on characterization of coal. He has also worked on the impact of geological and petrographic conditions on the coal liquefaction and coking behavior of coal besides its solvent extraction and spontaneous combustion.

(Team Award)

Shri Prabir Kumar Parui
Geological Survey of India

Shri Prabir Kumar Parui of the Geological Survey of India, Kolkata along with his team members has delineated significant and potential coal deposits in Godavari Valley coal fields. A total of 328.60 million tonnes of power grade coal of which 224.18 million tonnes occur within 300m depth have been estimated.

Shri K. Premchand
Geological Survey of India

Shri K. Premchand of the Geological Survey of India, Kolkata along with his team members has delineated significant and potential coal deposits in Godavari Valley coal fields. A total of 328.60 million tonnes of power grade coal of which 224.18 million tonnes occur within 300m depth have been estimated.

Shri M. Chandra Das
Geological Survey of India

Shri M. Chandra Das of the Geological Survey of India, Kolkata along with his team members has delineated significant and potential coal deposits in Godavari Valley coal fields. A total of 328.60 million tonnes of power grade coal of which 224.18 million tonnes occur within 300m depth have been estimated.

Shri B. Gangopadhyay
Geological Survey of India

Shri Biswajit Gangopadhyay of the Geological Survey of India, Kolkata along with his team members has delineated significant and potential coal deposits in Godavari Valley coal fields. A total of 328.60 million tonnes of power grade coal of which 224.18 million tonnes occur within 300m depth have been estimated.

Shri Chitta Ranjan Barman
Geological Survey of India

Shri Chitta Ranjan Barman of the Geological Survey of India, Kolkata along with his team members has delineated significant and potential coal deposits in Godavari Valley coal fields. A total of 328.60 million tonnes of power grade coal of which 224.18 million tonnes occur within 300m depth have been estimated.

Studies on Oil and Natural Gas

Shri Jokhan Ram
Oil and Natural Gas Corp. Ltd.

Shri Jokhan Ram of the Oil and Natural Gas Corporation Limited, Dehradun had evolved a new exploration strategy for hydrocarbons in Himalayan foot hills, Ganga, Vindhyan and South Rewa basins on the basis of his extensive studies in these regions.

Shri Narendra Kumar Lal
Oil and Natural Gas Corp. Ltd.

Shri Narendra Kumar Lal of the Oil and Natural Gas Corporation Limited, Dehradun has applied innovative concepts for hydrocarbon exploration in Kutch, Bombay offshore, Cambay, Krishna- Godavari and Assam basins leading to identification of several new prospects.

NATIONAL MINERAL AWARD – 1998

Mineral Discovery

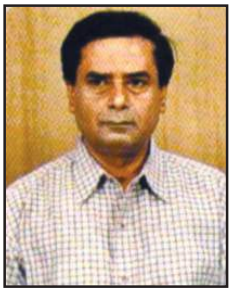
Shri Rabindra Nath Patra
Geological Survey of India

Shri Rabindra Nath Patra of the Geological Survey of India, Bhubaneshwar has done systematic exploration of Platinum Group of Elements (PGE) in ultramafic complex of Baula-Nausahi in Orissa and established it to be a first of its kind potential prospect in the country. A reserve of 6 million tonnes of PGE ore with an average grade of 2 gram per tonne has been estimated. His studies have led to a better understanding of the geology and control of mineralization in this complex.

Mineral Exploration (Team Award)

Shri C.P. Sisodia
Geological Survey of India

Shri C.P. Sisodia of the Geological Survey of India, Jaipur in association with his coworker has made valuable contribution in identifying the second largest zinc-lead deposit in Kayar block of Ajmer district, Rajasthan through multidisciplinary studies. The team had been successful in estimating ore resources of 9.18 million tonnes from this deposit



Shri A. K. Chattopadhyay
Geological Survey of India

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Mining Technology

Professor D. C. Panigrahi
Indian School of Mines

Professor D. C. Panigrahi of the Indian School of Mines, Dhanbad has contributed significantly in improving underground mine ventilation and design of work place environment in underground minesincluding heat and humidity problems. His work has been useful in enhancement of production and safety in the mines of India. His work on controlling the coal mines fires has helped in planning the trenching activity in and monitoring mine fires.

Professor C. Srikantappa
University of Mysore

Mohammad J. Ahmed
Geological Survey of India

Shri R. Sreehari
Atomic Mineral Division

Shri C.V.R. Sarma
Atomic Mineral Division

Shri Amit Bhusan Dutt
Geological Survey of India

Geology

Professor C. Srikantappa of the University of Mysore has studied the process of incipient charnockitisation in the Ponmudi area of Kerala besides the identification of high pressure Nilgiri granulites. He is credited with establishing a fluid inclusion study laboratory in Mysore University and has achieved expertise in this field.

Applied Geology

Mohammad J. Ahmed of the Geological Survey of India, Nagpur has made valuable contribution in the field of engineering geology during the construction of Narmada Sagar Mega project. He is credited with introducing innovative and cost effective applications like optimum slope treatment, characterization of rock masses and optimum support systems leading to enormous saving of construction time and cost of the project.

Geophysics

Shri R. Sreehari of the Atomic Mineral Division, Hyderabad along with his coworker has designed a PC based airborne gamma ray spectrometric (AGRS) survey system. for detection of radioactive elements. The new AGRS has been successfully used in obtaining gamma-ray spectra and tracings of radioactive elemental concentrations on the PC in the aircraft as well as at the air base with excellent results.

Shri C.V.R. Sarma of the Atomic Mineral Division, Hyderabad along with his coworker has designed a PC based airborne gamma ray spectrometric (AGRS) survey system. for detection of radioactive elements. The new AGRS has been successfully used in obtaining gamma-ray spectra and tracings of radioactive elemental concentrations on the PC in the aircraft as well as at the air base with excellent results.

Coal & Lignite

Shri Amit Bhusan Dutt of the Geological Survey of India, Kolkata has developed exploration models for coal and lignite deposits and has successfully tested them in the southern part of Godavari Valley coal basins and Thanjavur lignite basin in Tamil Nadu. His work has resulted in estimation of sizeable resources of coal in Rampuram area.

NATIONAL MINERAL AWARD – 1997

Mineral Discovery (Team Award)

Shri S. S. Nayak
Geological Survey of India

Shri S. S. Nayak of the Geological Survey of India, Hyderabad along with his coworkers has developed a multidisciplinary exploration model which has led to the discovery of four new diamond bearing kimberlite pipes in Wajrakarur area, twenty new kimberlite pipes in Narayanpet kimberlite field and a new diamond bearing cluster near Kalyandurg in Andhra Pradesh. The work carried out by the team has placed Karnataka State on the diamond map of the India.

Shri K. Raghu Prasada Rao
Geological Survey of India

Shri K. Raghu Prasada Rao of the Geological Survey of India, Hyderabad along with his coworkers has developed a multidisciplinary exploration model which has led to the discovery of four new diamond bearing kimberlite pipes in Wajrakarur area, twenty new kimberlite pipes in Narayanpet kimberlite field and a new diamond bearing cluster near Kalyandurg in Andhra Pradesh. The work carried out by the team has placed Karnataka State on the diamond map of the India.

Shri K.V. Suryanarayana Rao
Geological Survey of India

Shri K. V. Suryanarayana Rao of the Geological Survey of India, Hyderabad along with his coworkers has developed a multidisciplinary exploration model which has led to the discovery of four new diamond bearing kimberlite pipes in Wajrakarur area, twenty new kimberlite pipes in Narayanpet kimberlite field and a new diamond bearing cluster near Kalyandurg in Andhra Pradesh. The work carried out by the team has placed Karnataka State on the diamond map of the India.

Shri K.S. Bhaskara Rao
Geological Survey of India

Shri K. S. Bhaskara Rao of the Geological Survey of India, Hyderabad along with his coworkers has developed a multidisciplinary exploration model which has led to the discovery of four new diamond bearing kimberlite pipes in Wajrakarur area, twenty new kimberlite pipes in Narayanpet kimberlite field and a new diamond bearing cluster near Kalyandurg in Andhra Pradesh. The work carried out by the team has placed Karnataka State on the diamond map of the India.

Mineral Discovery of Economic or Strategic Importance (Team Award)

Shri Jayant Kumar Pashine
Directorate of Geology and Mining (M.P.)

Shri Jayant Kumar Pashine of the Directorate of Geology and Mining, Madhya Pradesh along with his teammates have made significant contribution by confirming presence of path finder minerals and diamond in gravels, that has led to locating diamondiferous kimberlite-lamproites at Payalikhand-Bahradih areas of Raipur district, Madhya Pradesh.

Shri Dinesh Verma
Directorate of Geology and Mining (M.P.)

Shri Dinesh Verma of the Directorate of Geology and Mining, Madhya Pradesh along with his teammates have made significant contribution by confirming presence of path finder minerals and diamond in gravels, that has led to locating diamondiferous kimberlite-lamproites at Payalikhand-Bahradih areas of Raipur district, Madhya Pradesh.

Shri Vijay Kumar Saxena
Directorate of Geology and Mining (M.P.)

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Dr. Sanjay Khare
Directorate of Geology and Mining (M.P.)

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Shri R. R. Bisen
Directorate of Geology and Mining (M.P.)

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Shri P.K. Padlamwar
Directorate of Geology and Mining (M.P.)

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Shri Harinder Pal Singh
Directorate of Geology and Mining (M.P.)

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Shri Datta Mainkar
Directorate of Geology and Mining (M.P.)

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Mineral Beneficition

Dr. Swades Kumar Basu
Geological Survey of India

Dr. Swades Kumar Basu of the Geological Survey of India has done outstanding work in establishing 7.76 million tonnes of additional phosphorite reserves from Purulia district of West Bengal with average grade of 7 to 10 percent P_2O_5. He has also evolved a genetic model for apatite-rare earth mineralization and its association with alkaline carbonatite magmatism that will serve as a guide for further exploration of rare earth bearing apatite deposits.

Mineral Beneficiation

Dr. M. R. Sekhar
Rajasthan State Mines and Mineral Limited

Dr. M.R. Sekhar of the Rajasthan State Mines and Mineral Limited has developed a variety of flotation processes for beneficiation of copper, lead, zinc, fluorspar, graphite and rock phosphate. He has successfully improved grade and recovery of zinc in zinc concentrates that has less iron and more silver.

Dr. N.R. Mandre
Indian School of Mines

Dr. N.R. Mandre of the Indian School of Mines, Dhanbad has used hydrometallurgical techniques and developed leaching – flotation process by which 90 percent metals like copper, lead and zinc can be recovered. He has also contributed in heap leaching of low grade gold ore of Hutti Gold mines and thereby, making it possible to recover gold from low grade ores in India.

Mineral Technology

Shri B.K.P. Sinha
Hindustan Zinc Limited

Shri B.K.P. Sinha of the Hindustan Zinc Limited, Udaipur has been successfully developed mining concepts and practices for carrying out excavation in high – stress areas of Mochia Mine in Zawar area and thus utilizing a large tonnage of lead – zinc ore that would have been otherwise left out unmined. His other notable achievement is in enhancing the capacity of Rampura-Agucha open pit mine.

Basic Geosicences

Professor Pradip Kumar Bose
Jadavpur University

Professor Pradip Kumar Bose of the Jadavpur University, Kolkata has done outstanding research in establishing the stratigraphy of the Vindhyan Supergroup. He is also known for his paleobiological studies on the Bagh beds and sequence stratigraphy of the Chaibasa Formation.

Professor Sudipta Sengupta
Jadavpur University

Professor Sudipta Sengupta of the Jadavpur University, Kolkata has done kinematic and geometric analysis of structures in Singhbhum shear zone leading to more information on their generation and evolutionary history. Her studies on various structural and metamorphic aspects of the East Antarctica are well known.

Dr. Anand Mohan
Banaras Hindu University

Dr. Anand Mohan of the Banaras Hindu University has contributed significantly in the understanding of the metamorphic evolution of Indian granulites. His work on establishing inverted metamorphism in the Precambrian terrain of Darjeeling-Sikkim Himalayas is well recognized.

Applied Geology

Shri Rabindra Nath Ghosh
Geological Survey of India

Shri Rabindra Nath Ghosh of the Geological Survey of India has carried out innovative work in the engineering geology towards construction support in civil structures like dam, tunnel and power house. His noteworthy achievement has been in the construction of Sapua Earth Dam in Orissa that became cost effective due to the technological support provided by him besides stopping major seepages in Jambhira nala and Kalimati dams of Orissa.

Dr. Pothuri Divakar Naidu
National Institute of Oceanography

Dr. Pothuri Divakar Naidu of the National Institute of Oceanography, Goa has carried out in-depth study of South-West monsoon variability from Arabian Sea and established its strength in the past 20,000 years leading to the discovery of 2,200 years periodicity in the Asian Monsoon Climate System. He has proposed that deep water circulations have a profound influence and utility in long range forecasting of the South-West monsoon strength over the Indian sub-continent.

Geophysics

Dr. M.V. Ramana
National Institute of Oceanography

Dr. M.V. Ramana of the National Institute of Oceanography, Goa has made significant contributions in the field of marine geophysics by producing tectonic map of the Bay of Bengal which has improved our understanding of crustal structure and evolutionary history of this area.

Dr. Dipankar Sarkar
National Institute of Oceanography

Dr. Dipankar Sarkar of the National Institute of Oceanography, Goa has carried out studies on Indian, European and American earthquakes that has resulted in compilation of an Atlas on Isoseismal Map of India.

Dr. A. Apparao
National Geophysical Research Institute

Dr. A. Apparao formerly of the National Geophysical Research Institute, Hyderabad has done innovative work that has helped in prospecting of conducting minerals from the ground surface. His experiments on resistively and designing induced polarization over synthetic samples has helped in defining the boundary between disseminated and massive ores.

Geochemistry

Dr. Y. J. Bhakar Rao
National Geophysical Research Institute

Dr. Y.J. Bhakar Rao of the National Geophysical Research Institute, Hyderabad has established the state of the art geochronology laboratory in NGRI which has produced high quality ages of the Precambrian rock formations of Southern India. His work on the high resolution chrono-stratigraphy of Dharwar Supergroup has been of immense value.

Coal Lignite (Team Award)

Shri Saroj Kumar Barua
Geological Survey of India

Shri Saroj Kumar Barua of the Geological Survey of India along with his team mates have unraveled the stratigraphic and structural setup of the virgin Tatapani - Ramkola coalfields in Madhya Pradesh through which it had been possible to delineate a potential block with about 147 millions tonnes of super grade coal over a stretch of 10 kilometer.

Shri D. N. Bandyopadhyay
Geological Survey of India

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Shri Dilip Kumar Das
Geological Survey of India

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Shri Sabyasachi Shome
Geological Survey of India

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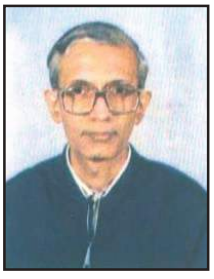
Environmental Geosciences Studies and Management



Professor B. C. Raymahashay
Indian Institute of Technology

Professor B. C. Raymahashay of the Indian Institute of Technology, Kanpur has made significant contribution on the impact of chemical and mining industries on soils, sediments and natural water bodies. His work on the correlation of the ion exchange property of the secondary minerals generated during rock weathering with attenuation of pollutants in surface and subsurface water environment is of immense value.

NATIONAL MINERAL AWARD – 1996

Mineral Discovery (Team Award)

Shri V.K. Shrivastava
Geological Survey of India
Kolkata

Shri V.K. Shrivastava of the Atomic Mineral Division along with his coworkers has made outstanding contribution by discovering uranium deposits in Nalgonda district of Andhra Pradesh. The sustained and concerted exploration efforts of the team resulted in proving 1.75 millon tonnes of uranium ore with an average grade of 0.093 U_3O_8 at Lambapur and 3.75 million tonnes with an average grade of 0.071 U_3O_8 at Peddagattu with in a shallow depth of 40 m.

Shri R. M. Singha
Geological Survey of India,
Kolkata

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Shri T. N. Parthasarathy
Geological Survey of India

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Mineral Discovery
(Team Award)

Shri Biplob Chatterjee
Geological Survey of India

Shri Biplob Chatterjee of the Geological Survey of India, Kolkata along with his teammates has made significant contribution by discovering diamondiferous kimberlite pipes in Payalikhand, Bahradih and Kodomali aeas of Raipur district, Madhya Pradesh by following a systematic approach. The remarkable work carried out by the team has opened up new vistas for exploration of diamond in several other areas of Chattisgarh, Orissa and Bihar.

Smt. Neeharika Jha
Geological Survey of India

Smt. Neeharika Jha of the Geological Survey of India, Kolkata along with his teammates has made significant contribution by discovering diamondiferous kimberlite pipes in Payalikhand, Bahradih and Kodomali aeas of Raipur district, Madhya Pradesh by following a systematic approach. The remarkable work carried out by the team has opened up new vistas for exploration of diamond in several other areas of Chattisgarh, Orissa and Bihar.

Shri B.K. Mishra
Geological Survey of India

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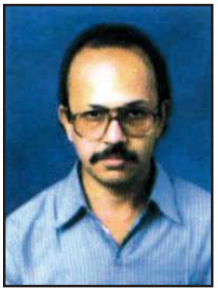

Dr. S.K. Deb
Geological Survey of India

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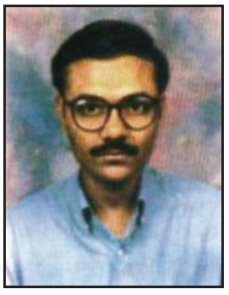

Shri S. Ravi
Geological Survey of India

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Mineral Beneficiation (Team Award)

Shri S.R. Shivananda
Atomic Mineral Division

Shri S.R. Shivananda of the Atomic Mineral Division, Hyderabad along with his coworkers has developed a beneficiation process of "Pug Cure Leaching" and demonstrated its technical and economic feasibility for extraction of uranium from the ore of Domiasiat in West Khasi Hills district, Meghalaya. This innovative technique of uranium extraction is better suited for these ores than the conventional method.

Dr K.K. Dwivedy
Atomic Mineral Division

Dr K.K. Dwivedy of the Atomic Mineral Division, Hyderabad along with his coworkers has developed a beneficiation process of "Pug Cure Leaching" and demonstrated its technical and economic feasibility for extraction of uranium from the ore of Domiasiat in West Khasi Hills district, Meghalaya. This innovative technique of uranium extraction is better suited for these ores than the conventional

Shri K.B. Mohanty
Atomic Mineral Division

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Shri K. Viswamohan
Atomic Mineral Division

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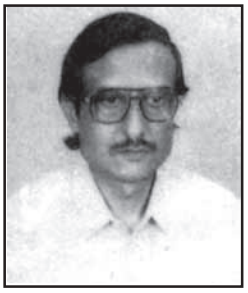
Mining Technology

Professor D. P. Singh
Banaras Hindu University

Professor D.P. Singh of the Banaras Hindu University has made significant contributions through his laboratory and field-oriented investigations in the field of rock drilling, slope stability, blasting and ground control ensuring safe mining practice. He has also established Equivalent Material Modelling techniques for simulating various geo-mining problems. He is credited with carrying out R&D work for increasing the anchorage of grouted rock bolt leading to improvements of safety and productivity in mines.

Basic Geoscience



Professor Somnath Dasgupta
Jadvapur University

Professor Somnath Dasgupta of the Jadvapur University, Kolkata has made outstanding contributions in the field of metamorphic petrology, ore geology and geochemistry. His research work on metamorphosed manganese deposits, Eastern Ghat granulites besides characterization and genetic interpretation of deep sea ferromangeanese nodules is well recognized.

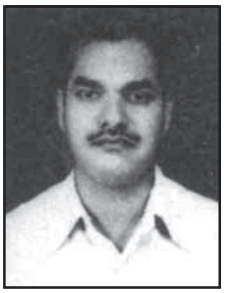
Professor I. B. Singh
Lucknow University

Professor I.B. Singh of the Lucknow University has made seminal contributions in the study of shallow marine sediments and developing new approaches in the stratigraphic studies. The comprehensive stratigraphic evolutionary model for the Late Quaternary history of the Ganga Plains proposed by him has immense scientific value.

Applied Geology

Shri S. C. Ghosh
Geological Survey of India

Shri S.C. Ghosh of the Geological Survey of India has made significant contributions to coal exploration and bio-stratigraphy of the Gondwana Formations through innovative application of Scanning Electron Microscope (SEM). His studies on geological materials by deciphering their ultrafine morphological structures and semi-quantitative chemical composition have led to their identification and classification.



Dr. M. Veerayya
National Institute of Oceanography

Dr. M. Veerayya of the National Institute of Oceanography, Goa has made significant contribution to the field of marine geology by recognizing various geomorphic features and shallow seismic characteristics of the western continental margin of India. He has indentified submarine terraces, sand ridges and correlated their position with palaeo -sea levels and palaeo - climate conditions during the late Quaternary.

Geophysics

Dr. D.C. Mishra
National Geophysical Research Institute

Dr. D. C. Mishra of the National Geophysical Research Institute, Hyderabad has made significant contribution in planning, execution and monitoring of gravity and magnetic surveys, processing and modelling of data sets and their integration with other available geophysical data in Peninsular India. He has also modelled the gravity- magnetic data from the west and east coasts of India, Arabian Sea, Bay of Bengal, Antarctica and Himalayas to understand the break-up and drift history of Indian plate.

Geochemistry

Professor Mihir Deb
University of Delhi

Professor Mihir Deb of the University of Delhi has made detailed petrological – geochemical characterization of ores and the host rocks leading to quantitative estimates of the physico-chemical parameters of their emplacement. His contributions on isotopic geochemistry of sulphide ore deposits and their implications on the ore forming environments have provided a modern perspective to metallogenesis in Rajasthan.

Professor J.A.K. Tareen
Mysore University

Professor J.A.K. Tareen of the Mysore University has carried out research leading to a better understanding of some fundamental processes operating in the earth's interior and during the formation of certain mineral assemblages. His study has provided new insights into the granulite mineral paragenesis and on granitic systems

Coal and Lignite

Shri P.N. Chaudhuri
Geological Survey of India

Shri P.N. Chaudhuri of the Geological Survey of India has applied a tectono-sedimentary model for basin analysis and exploration of coal in Talcher coal field in Orissa. The exploration work of this team has resulted in augmenting the coal reserves to the tune of 2.63 billion tonnes of which 108.47 million tonnes are of superior quality thereby raising its status to the top among the power grade coal deposits of India.

Shri J.K. Ghosh
Geological Survey of India

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Shri D. Bhattacharya
Geological Survey of India

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Shri S. Chakraborty
Geological Survey of India

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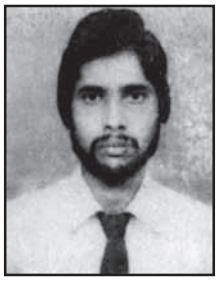

Dr. G. Chattopadhyay
Geological Survey of India

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Geological Survey of India

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Oil and Gas

Shri A. G. Pramanik
Oil and Natural Gas Corp. Ltd.

Shri A. G. Pramanik of the Oil and Natural Gas Corporation Limited has made significant contribution in the discovery and delineation of hydrocarbon-producing fields in various basins of Western Region, Bombay Offshore and Southern Region. He organized and conducted 3-D survey and first long offset Transient Electromagnetic (TEM) Survey which provided a new dimension to exploration and interpretation work.

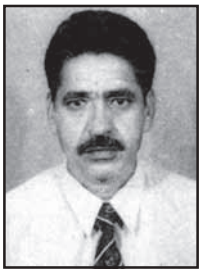
Scientific Expedition (Team Award)

Dr. Anil Joshi
Geological Survey of India

Dr. Anil Joshi of the Geological Survey of India, Faridabad along with his coworkers participated in the Indian Antarctic Expeditions and made significant contributions to the crustal evolution in parts of Antarctica. The research work carried out by the team on the magamatic evolution of the central Dronning Maud Land particularly on the granite and anorthosite-charnockite genesis is well recognized.

Dr. N. C. Pant
Geological Survey of India

Dr. N. C. Pant of the Geological Survey of India, Faridabad along with his coworkers participated in the Indian Antarctic Expeditions and made significant contributions to the crustal evolution in parts of Antarctica. The research work carried out by the team on the magamatic evolution of the central Dronning Maud Land particularly on the granite and anorthosite-charnockite genesis is well recognized.

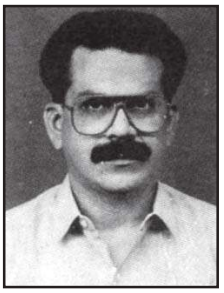


Dr. B.R. Bejarniya
Geological Survey of India

Dr. B.R. Bejarniya of the Geological Survey of India, Faridabad along with his coworkers participated in the Indian Antarctic Expeditions and made significant contributions to the crustal evolution in parts of Antarctica. The research work carried out by the team on the magamatic evolution of the central Dronning Maud Land particularly on the granite and anorthosite-charnockite genesis is well recognized.

NATIONAL MINERAL AWARD – 1995

Mineral Discovery (Team Award)



Dr. R.V.G. Nair
Geological Survey of India

Dr. R.V.G. Nair, of the Geological Survey of India, Thiruvananthapuram along with his colleague has discovered primary gold mineralization in the Attapadi Velley of Kerala. The sustained exploration efforts of the team resulted in delineating a 23 km long and 5-6 km wide gold bearing belt with an average grade of gold at 10 gram/tonne.

Dr. M.M Nair
Geological Survey of India

Dr. M. M Nair of the Geological Survey of India, Thiruvananthapuram along with his colleague has discovered primary gold mineralization in the Attapadi Velley of Kerala. The sustained exploration efforts of the team resulted in delineating a 23 km long and 5-6 km wide gold bearing belt with an average grade of gold at 10 gram/tonne.

Mineral Exploration (Team Award)

Shri P.S. Rao
Geological Survey of India

Shri P.S. Rao formerly of the Geological Survey of India, Chennai along with his coworkers has made significant contribution towards exploration of molybdenum in Dharmapuri district of Tamil Nadu. The exploration carried out by the team resulted in identification of a prominent zone of mineralization along a 28 km long shear zone with an estimated reserve of 2.9 million tonnes at a cut off grade of 0.05% molybdenum within a depth of 260 m.

Dr. T.A. Selvan
Geological Survey of India

Dr. T.A. Selvan of the Geological Survey of India, Chennai along with his coworkers has made significant contribution towards exploration of molybdenum in Dharmapuri district of Tamil Nadu. The exploration carried out by the team resulted in identification of a prominent zone of mineralization along a 28 km long shear zone with an estimated reserve of 2.9 million tonnes at a cut off grade of 0.05% molybdenum within a depth of 260 m.

Dr. T.M. Ganesan
Geological Survey of India

Dr. T.M. Ganesan of the Geological Survey of India, Chennai along with his coworkers has made significant contribution towards exploration of molybdenum in Dharmapuri district of Tamil Nadu. The exploration carried out by the team resulted in identification of a prominent zone of mineralization along a 28 km long shear zone with an estimated reserve of 2.9 million tonnes at a cut off grade of 0.05% molybdenum within a depth of 260 m.

Shri V. Palanisamy
Geological Survey of India,
Kolkata

Shri V. Palanisamy of the Geological Survey of India, Chennai along with his coworkers has made significant contribution towards exploration of molybdenum in Dharmapuri district of Tamil Nadu. The exploration carried out by the team resulted in identification of a prominent zone of mineralization along a 28 km long shear zone with an estimated reserve of 2.9 million tonnes at a cut off grade of 0.05% molybdenum within a depth of 260 m.

Shri M. Shanmugam
Geological Survey of India

Shri M. Shanmugam of the Geological Survey of India, Chennai along with his coworkers has made significant contribution towards exploration of molybdenum in Dharmapuri district of Tamil Nadu. The exploration carried out by the team resulted in identification of a prominent zone of mineralization along a 28 km long shear zone with an estimated reserve of 2.9 million tonnes at a cut off grade of 0.05% molybdenum within a depth of 260 m.

Shri S. Singanenjam
Geological Survey of India

Shri S. Singanenjam of the Geological Survey of India, Chennai along with his coworkers has made significant contribution towards exploration of molybdenum in Dharmapuri district of Tamil Nadu. The exploration carried out by the team resulted in identification of a prominent zone of mineralization along a 28 km long shear zone with an estimated reserve of 2.9 million tonnes at a cut off grade of 0.05% molybdenum within a depth of 260 m.

Mineral Beneficiation (Team Award)

Dr. J.P. Barnwal
Regional Research Laboratory

Dr. J.P. Barnwal of the Regional Research Laboratory along with his coworker has done critical data analysis and extensive mathematical modelling work on complex mineral ad coal processing unit operations resulting in substantial improvement in plant performance and enrichment of mineral ores.

Dr. B. Govindarajan
Regional Research Laboratory

Dr. B. Govindarajan of the Regional Research Laboratory along with his coworker has done critical data analysis and extensive mathematical modelling work on complex mineral ad coal processing unit operations resulting in substantial improvement in plant performance and enrichment of mineral ores.

Mineral Beneficiation

Professor R. Venugopal
Regional Research Laboratory

Professor R. Venugopal of the Indian School of Mines, Dhanbad has developed beneficiation strategies for dump manganese ore besides carrying out pelletization studies for beneficiated manganese, magnetite and limestone fines.

Mining Technology

Shri G. S. Khuntia
Steel Authority of India Ltd.

Shri G.S Khuntia of the Steel Authority of India Limited has made significant contribution particularly in the area of production, quality improvement and future expansion of steel industry. He is credited with having achieved higher productivity with quality control Kiriburu/Meghataburu, Barusa, Kalta and Dalli iron ore mines.

Geology : Stratigraphy, Structural Geology, Tectonics Petrology, Paleontology, Mineralogy, Seismotectonics, Remote Sensing

Professor D. Mukhopadhyay
Calcutta University

Professor D. Mukhopadhyay, of the Calcutta University has made original contribution on fundamental aspects of structural geology. His studies on Precambrian belts of Singhbhum, Karnataka and Rajasthan have thrown new light on thermo-tectonic and stratigraphic evolution of these terrains.

Dr. S. Sengupta
Geological Survey of India

Dr. S. Sengupta of the Geological Survey of India, Kolkata has carried out valuable research in understanding the intricate crustal processes in geologically complex areas of Indian craton and Himalayan terrain. His studies on basaltic volcanism in northeastern Himalaya and the peri-Indian ophiolites are important in context of global geodynamics.

Professor R. K. Lal
Banaras Hindu University

Professor R. K. Lal of the Banaras Hindu University has made outstanding contributions in the field of metamorphic petrology, mineralogy and mineralogical thermodynamics pertaining to Precambrian rocks of different terrains of India

Applied Geology
(Team Award)

Dr. A. Bhattacharya
National Remote Sensing Agency

Dr. A. Bhattacharya of the National Remote Sensing Agency along with his coworkers has done extensive research on remote sensing techniques for geological application in coal mine fire mapping. The team has prepared 1:4,000 scale maps of new mine fire, fire prone areas and rate of fire movement which are highly useful for effective fire fighting operations and strategic planning of mining activities.

Shri C.S.S Reddy
National Remote Sensing Agency

Shri C.S.S Reddy of the National Remote Sensing Agency along with his coworkers has done extensive research on remote sensing techniques for geological application in coal mine fire mapping. The team has prepared 1:4,000 scale maps of new mine fire, fire prone areas and rate of fire movement which are highly useful for effective fire fighting operations and strategic planning of mining activities.

Shri Manoj Dangwal
National Remote Sensing Agency

Shri Manoj Dangwal of the National Remote Sensing Agency along with his coworkers has done extensive research on remote sensing techniques for geological application in coal mine fire mapping. The team has prepared 1:4,000 scale maps of new mine fire, fire prone areas and rate of fire movement which are highly useful for effective fire fighting operations and strategic planning of mining activities.

Applied Geology

Dr. O.S Chauhan
National Institute of Oceanography

Dr. O.S Chauhan of the National Institute of Oceanography, Goa has done research on marine processes in Northern Indian Ocean, beach sediment dynamics and shoreline changes besides identification of areas susceptible to neotectonic activity. His studies have also thrown light into the variations in the intensity of palaeo-monsoon and past climate during Late Pleistocene in the Arabian Sea and Bay of Bengal.

Dr. S. M.Gupta
National Institute of Oceanography

Dr. S. M.Gupta of the National Institute of Oceanography, Goa has discovered 35 new species of Ichthyoliths from the nuclei and substrates of manganese nodules and has modified the alphanumeric system in ichthyolith taxonomy. His research has shown that monsoon has strengthened since last 9 Ma besides explaining the influence of the Antarctic bottom water current for genesis of manganese module deposits in the Central Indian Ocean Basin.

Geophysics

Professor I.V. Radhakrishna Murthy
Andhra University

Professor I.V. Radhakrishna Murthy of the Andhra University has made significant contribution in interpretation of gravity and magnetic data. He is credited with development of nomograms, interpretational aids and computer software that are widely used.

Professor B.B. Bhattacharya
Indian School of Mines

Professor B. B. Bhattacharya of the Indian School of Mines, Dhanbad has applied non-linear inversion to the resistivity problems with the help of Simulated Annealing Techniques for geo-electrical data interpretation. He has demonstrated the usefulness of well log data in making reliable evaluation of coal seams with regard to their thickness, ash, carbon and moisture content, and the formation strength parameters needed for mine planning and design.

Dr. P. R. Reddy
National Geophysical Research Institute

Dr. P. R. Reddy of the National Geophysical Research Institute, Hyderabad has done seismological studies that have helped in delineating deep crustal velocity structure along different profiles located in Cuddapah ,West Bengal basins, Koyna region Narmada-Son lineament and below Deccan Trap of Saurashtra region.

Geochemistry

Professor A. S. Janardhan
Mysore University

Professor A. S. Janardhan of the Mysore University has done pioneering studies on the granulites of Southern India leading to the understanding of the role of fluids enriched in carbon dioxide in the origin of granulite facies charnockites. His work also contributed to the understanding of lower crustal processes during late Archaean-Mid Proterozoic.

Shri K.K. Sen
Geological Survey of India

Shri R. Bandyopdhyay
Geological Survey of India

Shri B.S. Jodha
Geological Survey of India

Shri Atanu Ray
Geological Survey of India

Dr. D.K. Trehan
Oil and Natural Gas Corp. Ltd.

Coal & Lignite
(Team Award)

Shri K.K. Sen of the Geological Survey of India, Kolkata along with his coworkers has done reconstruction of paleo-sedimentary environmental facies model and its utilization as a method for coal exploration. The team is credited with establishishing coal reserves of 4460 million tonnes in Birbhum coalfield and identifying the locales of coal deposit at quarriable depths in less explored Mahnagarhi and Panchwara basins.

Shri R. Bandyopdhyay of the Geological Survey of India, Kolkata along with his coworkers has done reconstruction of paleo-sedimentary environmental facies model and its utilization as a method for coal exploration. The team is credited with establishing coal reserves of 4460 million tonnes in Birbhum coalfield and identifying the locales of coal deposit at quarriable depths in less explored Mahnagarhi and Panchwara basins.

Shri B.S. Jodha of the Geological Survey of India, Kolkata along with his coworkers has done reconstruction of paleo-sedimentary environmental facies model and its utilization as a method for coal exploration. The team is credited with establishing coal reserves of 4460 million tonnes in Birbhum coalfield and identifying the locales of coal deposit at quarriable depths in less explored Mahnagarhi and Panchwara basins.

Shri Atanu Ray of the Geological Survey of India, Kolkata along with his coworkers has done reconstruction of paleo-sedimentary environmental facies model and its utilization as a method for coal exploration. The team is credited with establishing coal reserves of 4460 million tonnes in Birbhum coalfield and identifying the locales of coal deposit at quarriable depths in less explored Mahnagarhi and Panchwara basins.

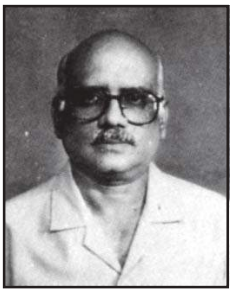
Oil and Gas

Dr. D.K. Trehan of the Oil and Natural Gas Corporation Limited has made contribution in the field of oil exploration by induction of new seismic and log interpretation technologies and optimizing recovery factor to sustain planned production profile. He pioneered the introduction of off-shore 3-D work as well as gravity data acquisition in the western and eastern offshore basin Of India.

Shri E.V.R. Parthsaradhi
Geological Survey of India

Dissemination of Scientific Information (Team Award)

Shri E.V.R. Parthsaradhi of the Geological Survey of India, Hyderabad along with his coworker has devised a methodology of automated cartography in the pre-press map preparation stage leading to speedier geo-scientific map production.



Dr. P. Prakash
Geological Survey of India

Dr. P. Prakash of the Geological Survey of India, Hyderabad along with his coworker has devised a methodology of automated cartography in the pre-press map preparation stage leading to speedier geo-scientific map production.

Professor A.K. Ghose
Bengal Engineering College

Dissemination of Scientific information

Professor A.K. Ghose of Bengal Engineering College has carried out pioneering research on roof bolting, application of rock mass classification which have found wide acceptance and application by the industry. He has substantially contributed towards dissemination of scientific data through his publications and editorship of several national and international journals and books.

YOUNG RESEARCHER AWARD

Young Researcher Award - 2012

Dr. Vikram Vishal
Indian Institute of Technology

Dr. Vikram Vishal of Indian Institute of Technology, Roorkee, has done exceptional research in the field of carbon sequestration. He has done geochemical characterization of the coal measures in Jharia and Raniganj coalfields and application of soft computing for prediction of key rock- physical parameters.

Young Researcher Award-2010

Shri Yogesh Ray
Wadia institute Of Himalayan Geology

Shri Yogesh Ray of Wadia institute of Himalayan Geology, Dehradun, has done outstanding research on Proterozoic to Holocene sedimentary sequences deposited under varied climatic spectrum. His studies on the Quaternary geology and geomorphology of Himalaya have provided significant information on the role of climate and tectonics in the development of the landforms.

Young Researcher Award – 2009

Shri. Ashish Namdeo Dongare
Institute of Science

Shri. Ashish Namdeo Dongare of Institute of Science, Aurangabad has made extensive petrological and geochemical studies on the kimberlite pipes of the Narayanpet and Raichur area in the eastern Dharwar craton and lamproites of Krishna lamproite field, southern India. He has for first time reported the occurrence of carbonate xenoliths hosted by the Mesoproterozoic Siddanpalli kimberlite cluster in Raichur kimberlite field.

LIST OF THE INSTITUTIONS / ORGANISATIONS OF NATIONAL GEOSCIENCE AWARDEES

1 Andhra University, Visakhapatnam
2 Amicable Knowledge Solution University, Satna, Madhya Pradesh
3 Associated Stone Industry Limited, Kotah, Rajasthan
4 Atomic Minerals Directorate for Exploration & Research, Hyderabad (former Atomic Minerals Division, Hyderabad)
5 Banaras Hindu University, Varanasi
6 Bangalore University, Bangalore
7 Bengal Engineering College, Kolkata
8 Birbal Sahni Institute of Palaeobotany, Lucknow
9 Center for Earth Science Studies, Thiruvananthapuram
10 Center for Mathematical Modelling & Computer Simulation, Bengaluru
11 Central Building Research Institute, Roorkee
12 Central Ground Water Board, Patna
13 Central Institute of Mining and Fuel Research, Dhanbad
14 Central Mine Planning and Design Institute, Ranchi
15 Central Mining Research Institute, Roorkee
16 Coal India Limited, Kolkata
17 Directorate of Geology and Mining, Bhopal, Madhya Pradesh
18 Geological Survey of India
19 Hindustan Zinc Limited, Udaipur
20 Hutti Gold Mines Company Limited, Karnataka
21 India Meteorological Department, New Delhi
22 Indian Bureau of Mines, Nagpur
23 Indian Institute of Geomagnetism, Mumbai
24 Indian Institute of Science, Bengaluru
25 Indian Institute of Technology, Bombay
26 Indian Institute of Technology, Kanpur
27 Indian Institute of Technology, Kharagpur
28 Indian Institute of Technology, Mumbai

29 Indian Institute of Technology, Roorkee
30 Indian National Centre for Ocean Information Services, Hyderabad
31 Indian School Of Mines University, Dhanbad
32 Indian Space Research Organisation, Ahmedabad
33 Indian Statistical Institute, Kolkata
34 Institute of Mineral & Materials Technology, Bhubaneswar
35 Institute of Science, Aurangabad
36 Jadavpur University, Kolkata
37 Jai Narain Vyas University, Jodhpur
38 Jawaharlal Nehru Technological University, Hyderabad
39 Jawharlal Nehru University, Delhi
40 Keshav Dev Malaviya Institute for Petroleum Exploration , Dehradun
41 Lucknow University, Lucknow,
42 Maharaja Sayajirao University, Baroda
43 Maharana Pratap University of Agriculture and Technology, Udaipur
44 Mineral Exploration Corporation Limited, Nagpur
45 MSPL Limited, Hosepet, Karnataka
46 Nanyang Technical University, Singapore
47 National Centre for Antarctic & Ocean Research, Vasco-Da-Gama,
48 National Geophysical Research Institute, Hyderabad
49 National Institute of Ocean Technology, Chennai
50 National Institute of Oceanography, Goa
51 National Institute of Rock Mechanics, KGF
52 National Metallurgical Laboratory, Chennai
53 National Mineral Development Corporation, Hyderabad
54 National Remote Sensing Agency, Hyderabad
55 Neyveli Lignite Corporation Limited, Neyveli
56 Oil and Natural Gas Corporation Limited, Dehradun
57 Osmania University, Hyderabad
58 Panjab University, Chandigarh
59 Physical Research Laboratory, Ahmedabad

60 Presidency University, Kolkata (former Presidency College, Kolkata)
61 R.K. Marbles Private Limited, Udaipur
62 Rajasthan State Mineral And Mining, Rajasthan, Udaipur
63 Ramgad Minerals & Mining Limited, Hosepet, Karnataka
64 Regional Research Laboratory, Bhopal
65 Reliance Industry, Mumbai
66 School of Earth Science, SRTM University, Nanded, Maharastra
67 Steel Authority of India Limited, Ranchi
68 Tata Steel, Jamshedpur
69 University of Calcutta, Kolkata
70 University of Delhi, Delhi
71 University of Mysore, Mysore
72 University of Pune, Pune
73 Uranium Corporation Of India, Jaduguda
74 Wadia Institute of Himalayan Geology, Dehradun

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