



BSIP Newsletter

Number 1

June 1998

A six monthly publication

Postal Stamps on Fossil Plants released

A set of four stamps, issued by the Department of Posts, was released on 11 September, 1997 by the Minister of Communications, Government of India to commemorate the 50th Anniversary of the Birbal Sahni Institute of Palaeobotany, Lucknow (under Department of Science & Technology, Government of India). The details of the stamps are as follows:

1. It depicts a model of an extinct plant *Williamsonia seawardiana* which thrived around Rajmahal in Bihar (India) about 140 million years ago.

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On the eve of releasing four Postal Stamps on fossil plants (from left to right : Dr G. Rajagopalan addressing, Shri S.P. Ojha—Post Master General, Uttar Pradesh, Professor C.V. Subramanian, Shri Beni Prasad Verma—the then Minister of Communications, Government of India, Dr Rao Aiyagari and Dr H.K. Maheshwari).

This model is based on the reconstruction drawn by Professor Birbal Sahni.

instituted by Professor Birbal Sahni. The Stamp shows reconstruction of the plant of *Pentoxylon* with leaves, stem and flowers based on fossils collected from Nipania in Dumka

2. This extinct plant *Pentoxylon* belongs to the family Pentoxyleae



Shri Beni Prasad Verma releasing the Postal Stamps on Indian fossil plants.





District, Rajmahal Hills, Bihar (age 110-114 million years).

3. It documents a leaf of *Glossopteris*, belonging to a unique group of extinct vascular plants (age : 250-280 million years) that populated the Gondwana Supercontinent which included South America, Antarctica, Africa and Australia and the Arabian Peninsula. This vegetation was responsible for the precious coal reserves in peninsular India.

4. It features a male reproductive organ of an extinct plant—*Birbalsahnia*



divyadarshanii named after eminent Indian palaeobotanists—Professor Birbal Sahni and Professor Divya Darshan Pant. The fossil was discovered by Drs H.K. Maheshwari and Usha Bajpai from Hura Coalfield, Santhal Pargana, Bihar (age 250-280 million years).

The First Day Cover issued on the occasion features the Birbal Sahni Institute of Palaeobotany and a Cameo inset of Professor Birbal Sahni.

Release of Proceedings Volume

On 11 September, 1997 the Proceedings Volume (*The Palaeobotanist*) of the Conference on "Physical and biological changes across the major geological boundaries", organised during Golden Jubilee Year of the Institute was also released. This volume, edited by Drs H.K. Maheshwari and P.K. Maithy, includes 29 research papers from Indian and foreign scientists.

Founder's Day Celebration

On 14 November, 1997 *Pushpanjali* was offered on the *Samadhi*



BSIP Golden Jubilee Year celebrations—Dr R. Aiyagari, D.S.T., New Delhi releasing a Proceedings Volume of *The Palaeobotanist*.





Dr P.D. Dogra delivering the 27th Birbal Sahni Memorial Lecture.

Memorial Lecture entitled "*Vagaries of the summer monsoon rains*". Professor C.V. Subramanian, Chairman,

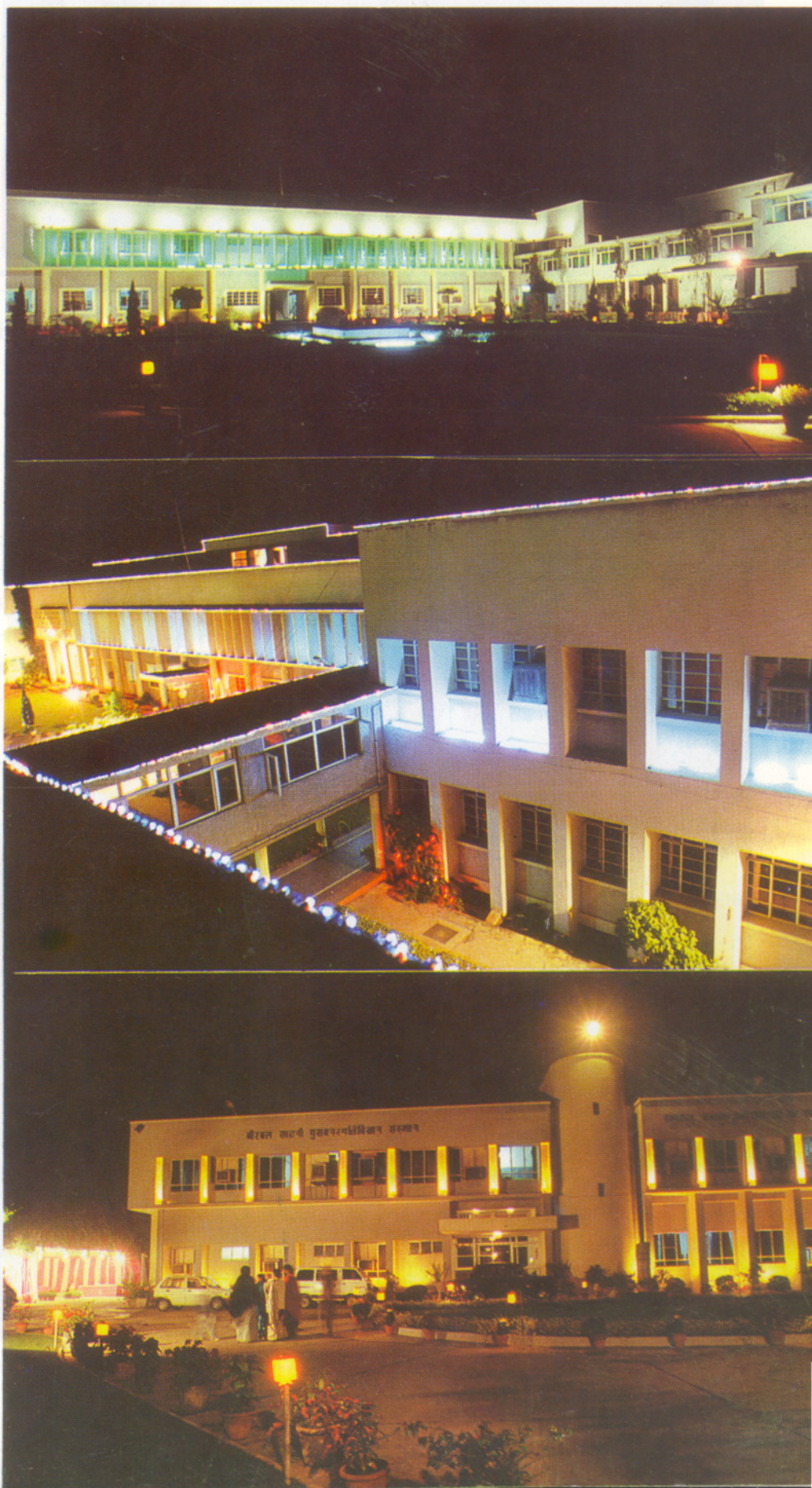
Governing Body, presided over the function. Dr P.K. Maithy gave the vote of thanks.

of Professor Birbal Sahni by the Institute staff and scientists from other organisations. In the evening Dr P.D. Dogra, FNA, INSA Senior Scientist, delivered the 27th Birbal Sahni Memorial Lecture entitled "*Endangered tree genetic resources of forests of India—High subspecific variation : its conservation and utilization in tree breeding and silviculture*". Thereafter, Dr P.K. Das, FNA, Retired Director-General, India Meteorological Department, delivered the 43rd Sir Albert Charles Seward



Dr P.K. Das delivering the 43rd Sir Albert Charles Seward Memorial Lecture.

BSIP Golden Jubilee Celebrations: Institute's Building taking a bath in coloured lights.

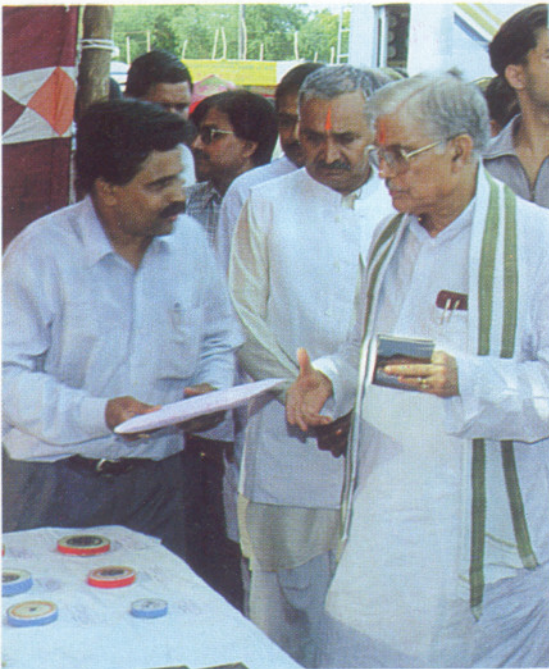




Founder's Day Celebrations (from left to right : Dr P.K. Maithy, Dr G. Rajagopalan, Dr P.K. Das—ex-Director General, India Meteorological Department, Professor C.V. Subramanian, Dr P.D. Dogra—INSA Senior Scientist, Professor A.K. Sinha and Dr H.K. Maheshwari).

Professor Murli Manohar Joshi, Minister of Science and Technology visited Institute's stall

Dr Murli Manohar Joshi took over as Minister of Science &



Professor Murli Manohar Joshi showing deep interest in Institute's exhibits.

Technology and Human Resource & Development, Government of India on 19 March, 1998. He is former Professor of Physics from Allahabad University, Allahabad. Recently he visited the Institute's stall at the "Golden Jubilee State level Science &

Technology Exhibition and Fair" held at Allahabad from 17-20 June, 1998.

Professor Anshu Kumar Sinha took over as Director, BSIP

Professor Anshu K. Sinha, M.Tech., Ph.D., D.Sc. (Moscow), a distinguished earth scientist and honorary Professor of Geology of Russian Friendship University, Moscow took over as seventh Director of the Birbal Sahni Institute of Palaeobotany,

distinguished Senior Scientist with the Wadia Institute of Hima-layan Geology, Dehra-dun which he joined at its infancy as a Founder Member, in 1973. Before taking up the challenges of exploring unknown and inaccessible Higher Central Himalaya, he worked extensively in the Caucasus Mountain belt of erstwhile Soviet Union, presently the independent countries—Georgia, Armenia and newly emerged nations of Caucasus Mountain region. In 1982, Moscow State University awarded him the D.Sc. Degree for his classical research work on the inaccessible higher zones of Central Himalaya behind Nañda Devi mountains. In recognition of his scientific achievements and professional R & D management he was conferred with the "National Mineral Award" in 1986 by the Ministry of Steel and Mines, Government of India. His hard work, laudable research and excellent book "Geology of the Higher Central Himalaya" published by John Wiley & Sons, U.K. (1989) earned him the rare distinction of front rank ex-



Professor Anshu K. Sinha, Director, BSIP

Lucknow since 14 November, 1997. Professor Siha was earlier a



plorer of the world's highest mountain chain—Karakoram Himalaya.

His association with the International Commission of Lithosphere (ICL) and IGCP Projects has been published in internationally acclaimed two Volumes—“*Himalayan orogen and global tectonics*” (ICL Publication No. 197) 1992 and “*Geodynamic domains in the Alpine-Himalayan Tethys*” (IGCP Project No. 276) by Balkema, New York (1997). He is the national earth science co-ordinator of Indo-Russian Projects under the Department of Science and Technology, Government of India.

Professor Sinha is a widely travelled scientist and has delivered a number of invited lectures on the aspects of Himalayan mountain building and its hidden mineral wealth as well as fragile ecosystem in a number of universities and research organisations in India and abroad. He is a self made man of wide interest and has independent outlook in scientific pursuit. At the helm as Director, he is taking new challenges to steer the BSIP, the internationally reputed Institute, into 21st Century.

National Science Day Celebration – 1998

The National Science Day was celebrated at the Institute on 27 and 28 February, 1998. Some of the activities of the function were jointly organised at the Regional Science Centre, Lucknow. To organise the function systematically, an Organising Committee was also constituted by the Director.

Various activities organised

during Science Day celebrations are as follows.

Open House

The Institute observed open house on 28 February, 1998. All laboratories, Museum, Herbarium, Library, etc. remained open for general public. Students of local schools/colleges were also invited to visit the Institute. The students from about 20 educational institutions visited the Institute and showed keen interest in our activities. Educational films on Earth and its environment were also

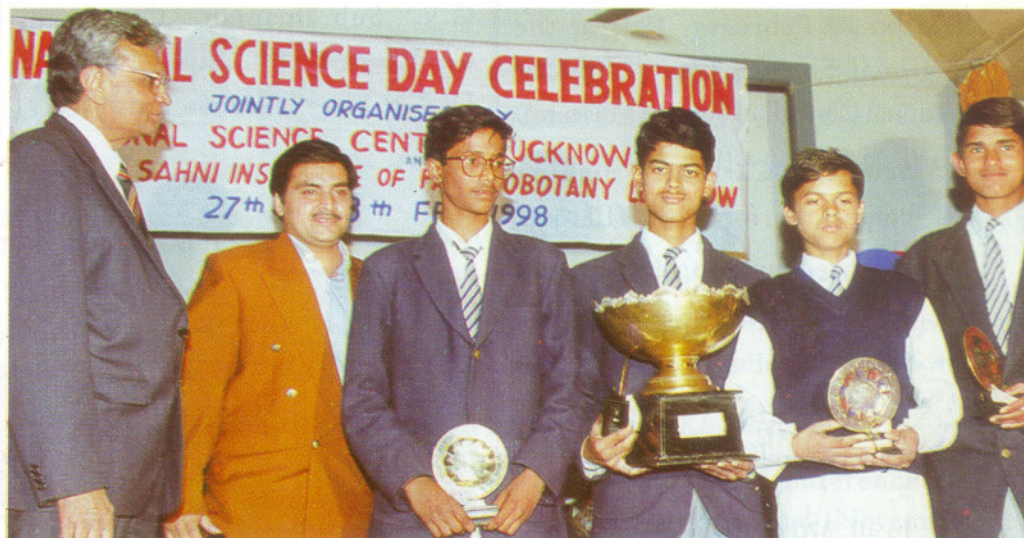
shown to the visitors. Fossil specimens of various group of plants in the geological past fascinated the visitors most.

Debate Competition

On 27 February, 1998 a debate was organised on the topic “Development of Science and Technology during the 50 years of independent India”, in which 22 students (age group : 13-16 years) from nine local schools participated. Some of them spoke in Hindi and some in English. The students impressed the



National Science Day—Children sketching the drawings.



National Science Day—Students with their earned prizes.

audience with their style, text and delivery.

Art Competition

On 28 February, an Art Competition was held for three groups of students. The first group comprised students of Nursery and K.G. classes, the second group consisted of students of classes I-III, and the third group was from classes IV-VI. The students were asked to sketch drawings of any animal/flower of their choice.

The performance of the participants of both the events were evaluated by Panels of Judges comprising staff members of the Institute as well as from other institutions. Dr Mrs Meenakshi Sinha, distributed the prizes to the winners.

Exhibition

A photo exhibition depicting achievements and activities of the Birbal Sahni Institute of Palaeobotany was also organised in which the visitors took keen interest.

The following competitions were held on 29 February, 1998 at the Regional Science Centre (under National Council of Science Museum).

- Science Cartoon making competition for classes VIII to XI
- Science Quiz for Junior and Senior classes
- Science for Fun for classes VIII to IX
- Science model Competition

In all, 370 students from 40 local

educational institutions actively participated in this competition. The valedictory function was presided over by Professor A.K. Sinha, Director, BSIP, who also distributed the prizes to the winners. Professor Sinha, while speaking on the importance of Science Day celebrations, encouraged the students to develop scientific temper and outlook.

Foundation Day Function

The Foundation Day Function of the Institute was organised on 10 September, 1997. The function was



Dr Jagdish Pandey delivering a lecture on Selfconsciousness.

presided over by Professor C.V. Subramanian, Chairman, Governing Body. On this occasion Dr N.S. Murali, Professor of Surgery,

Ragas Dental College, Chennai delivered the First Golden Jubilee Commemoration Lecture. Dr G.



Dr N.S. Murali delivering the First Golden Jubilee Commemoration Lecture.

Rajagopalan, Scientist 'F' gave the vote of thanks.

IX Five Year Plan : New identified Thrust Areas

For the IX Five Year Plan, the research programmes of the Institute



Brain storming session (from left to right : Professor D.V. Singh, Professor A.K. Sinha, Professor O.P. Verma and Dr G.J. Samathanam).



have been expanded and the following revised thrust areas have been identified to steer the Institute with wider vision and perspective into 21st Century.

- Origin and antiquity of life (DNA, RNA)
- Gondwana Supercontinent : Regional geology, terrane accretion, plate tectonics and configuration
- Coal bed methane (CBM) investigation
- Petroliferous basins of India and abroad
- Palaeoclimatology and palaeomonsoon

Lectures at the Institute by outside scientists

Professor M.C. Boulter, Palaeobiology Research Unit, University of East London, U.K. and Secretary, International Organization of Palaeobotany delivered a talk on "Palaeobotany in the internet shows patterns of evolution" on 12 November, 1997.

Professor David L. Dilcher, Florida Museum of Natural History, University of Florida, U.S.A. delivered a lecture on "Angiosperm leaf anatomy and morphology relationships to palaeoclimate and predictors of future climate" on 21 January, 1998.

Dr Jagdish Pandey, Group Manager, Exploration (Retd.), Oil & Natural Gas Commission Ltd., Bombay delivered a lecture on "Consciousness, evolution and future of man" at the Institute on 10 March, 1998.

Professor Sun Weiguo, Nanjing Institute of Geology and Palaeontology, Nanjing, China delivered a lecture entitled "Evolution of multicellular life towards Cambrian radiation" on 18 March, 1998.

Brain Storming Session

A Brain Storming Session on "Quantification of financial and manpower resources devoted to R & D in Science and Technology: an approach for academic sector" was held at the Institute on 23-24 March, 1998. This session was sponsored by the Department of Science & Technology, Government of India, New Delhi and organised by the Indian Geological Congress.

Honours & Awards

Fellows elected

Following scientists of the Institute have been elected as Fellows of The Palaeobotanical Society, Lucknow for distinguished



Dr Anand-Prakash



Dr J.S. Antal



Dr Jayasri Banerji



Dr Shaila Chandra



Dr Anil Chandra



Dr H.P. Gupta



Dr S.A. Jafar



Dr R.K. Saxena



Dr Chhaya Sharma



Dr S.C. Srivastava



Dr A.K. Srivastava



Dr G.P. Srivastava

scientific attainments and Citations were given to them on 26th December, 1997.

Scientific Sessions chaired

Dr H.K. Maheshwari

National Symposium on Biodiversity, conservation and evolution of plants, Allahabad (November 27-29, 1997).

XVI Indian Colloquium on Micropalaeontology and stratigraphy, Dona Paula, Goa (January 22-24, 1998).

Dr P.K. Maithy

XVI Indian Colloquium on Micropalaeontology and stratigraphy, Dona Paula, Goa (January 22-24, 1998).

Dr Mrs Asha Khandelwal

IX National Conference on Aerobiology, Hyderabad (November 27-30, 1997).



Awards

Dr P.C. Bhandari Medal

Sri Ratan Kar, Birbal Sahni Research Scholar, was awarded the Dr Pratul Chandra Bhandari Medal for 1997 for the best piece of research work done by him during 1994-96 at the Institute. He was given a Medal and Citation.



Sri Ratan Kar

Dr P.N. Srivastava Prize

Dr Vijaya, Scientist 'D', was awarded the Dr P.N. Srivastava Prize on 14 November, 1997 for the best piece of research work done by her during the last two years. She was given a Medal and Citation.



Dr Vijaya

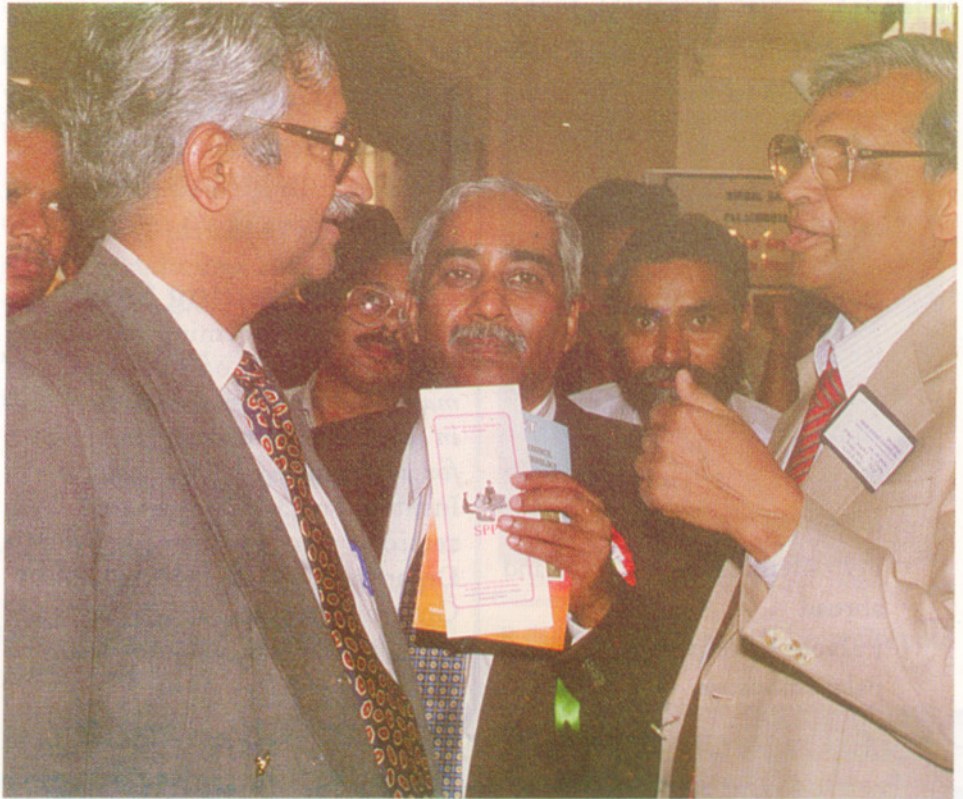
Sahni-Iyengar Prize

Dr Mrs Shaila Chandra was awarded the "Sahni-Iyengar Prize" for the best paper entitled "Bryophytic

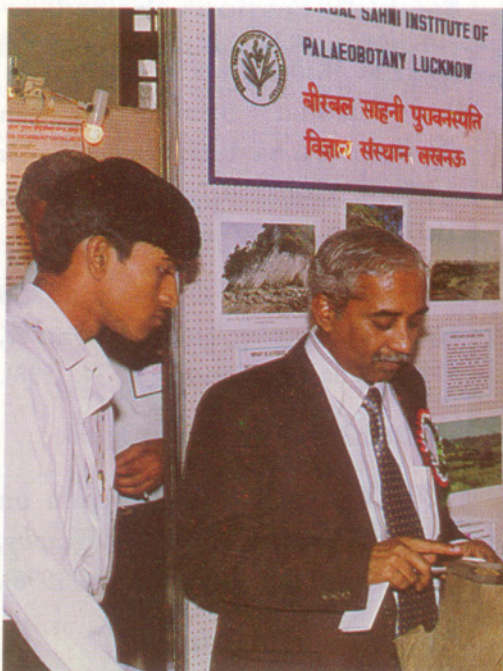
remains from Early Permian of India" published in three consecutive Volumes of *The Palaeobotanist*.



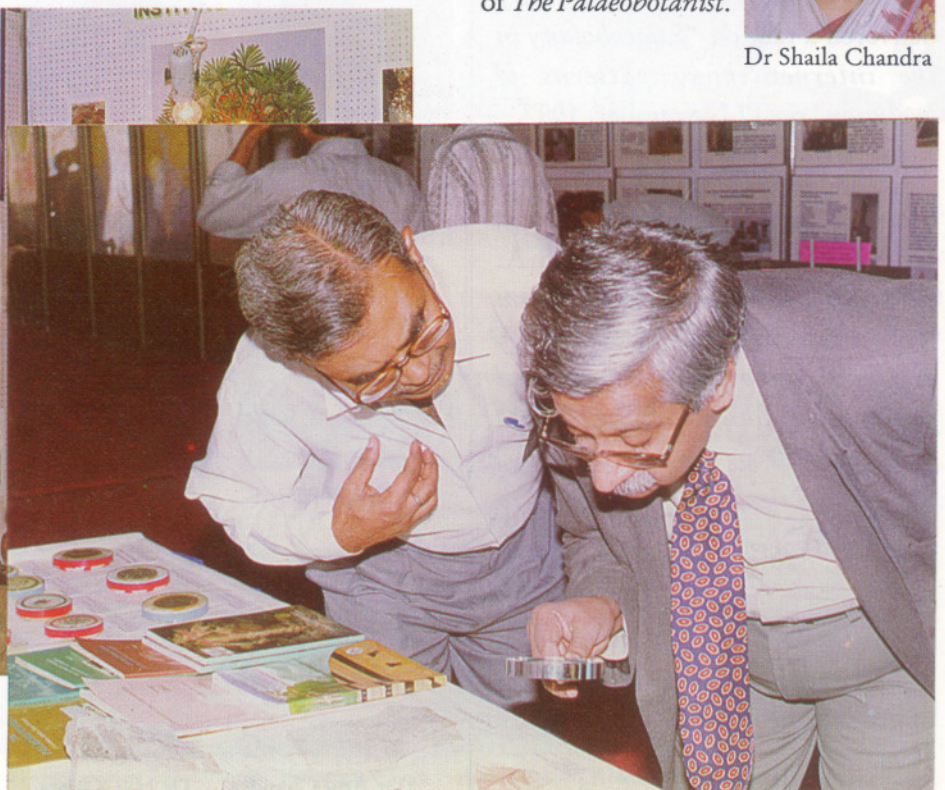
Dr Shaila Chandra



Professor A.K. Sinha, Director, BSIP explaining the activities of the Institute at the exhibition.



Visitors showing keen interest in the exhibits of the Institute.



Professor V.S. Ramamurthy, Secretary, D.S.T. showing deep interest in plant fossils at the exhibition.





Professor V.S. Ramamurthy, Secretary, D.S.T., New Delhi releasing a Calendar during 85th Session of the Indian Science Congress at Hyderabad.

Participation in DST Exhibition

The Institute participated in an Exhibition organised by the Department of Science and Technology, New Delhi during 85th Annual Session of Indian Science Congress, Hyderabad from January 3-8, 1998. A number of scientists of the Indian Science Congress, a large number of students from various educational institutions in Hyderabad, and the general public showed deep interest in our exhibits. During the exhibition pamphlets, brochures, Annual Reports, etc. were distributed to popularise palaeobotany. Besides, a number of plant fossil specimens were also gifted to distinguished scientists.

Deputation/Participation in Conferences/Symposia

The following scientists of the Institute were deputed to participate in national and international symposia/seminars within the country.

H.K. Maheshwari National
Jayasri Banerji Symposium on

A.K. Srivastava *Biodiversity,*
B.N. Jana *conservation and*
Rashmi Srivastava *evolution of plants,*
Allahabad (27-29
November, 1997).

Anand-Prakash National Seminar
A.K. Srivastava on *Recent advances*
Archana Tripathi in *geology of coal and*
Neerja Jha *lignite basins of*
Ram-Awatar *India, Calcutta (5-7*
O.S. Sarate *December, 1997).*

Alpana Singh
A.P. Bhattacharyya
Shinjini Sarana

R.S. Singh *Field meeting and*
group discussion on
Cretaceous
environmental
change in East
and South Asia,
Madhya Pradesh (9-
15 December, 1997).

A.K. Ghosh XIV Convention of
Indian Association of
Sedimentologists,
Chennai (17-19

December, 1997)

Vijaya International
Seminar on
Cretaceous,
Chennai (6-8
January, 1998).

H.K. Maheshwari XVI Colloquium
P.K. Maithy on *Micropala*
Chhaya Sharma *-eontology and*
Vijaya *Indian stratigraphy,*
Dona Paula, Goa,
(January 22-24,
1998).

Shaila Chandra National
A.K. Srivastava Symposium on *50*
R.R. Yadav *Years of Botany in*
S.K. Bera *India : an assessment,*
Varanasi (27-28
February, 1998).

J.S. Guleria Workshop on
Himalayan Foreland
Basin,

Samir Sarkar Jammu (16-19
March, 1998).

Elected in Scientific Associations

The following scientists were elected for the Executive Council of The Palaeobotanical Society, Lucknow.

Dr Mrs Shaila Chandra President

Dr H.P. Gupta Secretary

Dr Suresh C. Srivastava Chief

Editor

Dr G.P. Srivastava Treasurer

Dr Anand-Prakash Councillor

Dr Mrs Chhaya Sharma Councillor

Dr O.S. Sarate Councillor



Visits Abroad

The following scientists visited abroad to attend symposium and scientific exchange programme.

Archana Tripathi and Neerja Jha

Symposium on African Palynology, Johannesburg, 15-19 September, 1997.

Rahul Garg

Indian National Science Academy and Deutsche Forschungsgemeinschaft, Germany exchange Programme for 3 months w.e.f. 21 November 1997 to 15 January, 1998.

Professor T.M. Harris Medal – 1998

Applications are invited by the Birbal Sahni Institute of Palaeobotany Lucknow (India) for the award of Professor T.M. Harris Medal-1998.

The selection of the candidate(s) be made for the best paper published in the subject of palaeobotany or any allied discipline in any referred journal released during the period April 01, 1996 to March 31, 1998 excluding *The Palaeobotanist*. The papers submitted by the candidate(s) shall be evaluated by an Expert Committee. The author/authors can be from the Birbal Sahni Institute of Palaeobotany or from outside including foreign countries or both. In the case of multiple authorship, all the authors shall receive the award.

The award shall carry a Medal and Citation. The awardee(s) from within India shall be paid economy class airfare or AC 1st class rail fare from residence to the Institute and return. The

awardee(s) from foreign countries shall be paid economy class airfare or AC 1st class rail fare from the International airport/seaport and return.

Applications giving details of the paper which is to be considered for Professor T.M. Harris Medal-1998, should include—title of the paper, volume, number, year of issue, page numbers with a copy of the published paper along with the name, date of birth, nationality, address for correspondence, qualifications and specialisation, research and professional experience, etc., of the author/all authors be submitted to:

Registrar
Birbal Sahni Institute of
Palaeobotany
53 University Road,
Lucknow 226 007 (India)

Fax : 91-0522-381948/374528
E-Mail : bsip@bsip.sirnetd.ernet.in
Phone : 333620, 324291, 323206,
325822, 325945

Forthcoming Conferences at BSIP

1. International Symposium on *Multifaceted aspects of tree-ring analysis* (15-19 November, 1999)

The Organizing Committee for the International Symposium on "Multifaceted aspects of tree ring analysis" invites dendrochronologists, climatologists, forest scientists, archaeologists, earth scientists and scientists from related disciplines to attend and participate in the Symposium to be organised at the Birbal Sahni Institute of Palaeobotany, Lucknow.

The five-day symposium (from 15-19 November, 1999) will focus on the recent trends and developments in

tree-ring analysis in relation to climate change including monsoon, ENSO and other phenomena in global perspective.

Other topics concerning tree-ring studies dealing with forest monitoring in context of increasing anthropogenic pressure, river flow discharge, dating and impact assessment of natural hazards, application to archaeology, etc. will also be covered. This symposium will focus on the popularization of tree-ring studies in low-latitude countries where tree-ring data are meagre. It is also planned to hold plenary lectures on different themes of the symposium before each technical session. The themes include:

- Tree growth/climate relationship and climate reconstruction
- Isotope studies on tree-rings
- Application of tree-ring studies in forest monitoring
- Assessment of natural disturbances on tree growth
- Dating of natural hazards
- Dating of archaeological and historical structures

A post-symposium field excursion will also be arranged for the participants to visit dry deciduous teak forest in central India.

The "Second Announcement" will be mailed in August, 1998. It will contain more information and instructions for submitting the Abstracts.

Contact person :
Dr Amalava Bhattacharyya
Organising Secretary
International Symposium on "*Multifaceted aspects of tree-ring analysis*"



Birbal Sahni Institute of Palaeobotany
53 University Road
Lucknow 226 007 (India).

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325822, 325945

2. International Symposium and Field Workshop on "Geodynamic evolution of Karakoram-Himalaya-Eastern Syntaxis (Indo-Burma Range)-Andaman-Nicobar Island Arc and adjoining region"

The Symposium, to be organised at the Birbal Sahni Institute of Palaeobotany, will synthesize geological studies in Karakoram-Himalaya-Eastern Syntaxis-Andaman-Nicobar Island Arc and also in Indo-Pacific region based on DSDP and ODP. It will also provide a platform to the geoscientists working in this region to exchange their views and information, to discuss and fill the gaps in our knowledge and to set future goals. BSIP, a nodal centre of palaeobotanical research, will act as a catalyst to hold this International Symposium.

Themes

- Accretion of Karakoram terrane
- Origin and evolution of Himalaya-Karakoram-Eastern Syntaxis-Andaman Nicobar Island Arc
- Micropalaeontology and stratigraphy
- Palaeogeography, palaeoclimate and depositional environment
- Prospects of hydrocarbons in Andaman & Nicobar Islands and offshore region
- Studies in Indo-Pacific region based on DSDP and ODP

Institutions likely to be involved :

Banaras Hindu University, Varanasi
BGR, Germany
Birbal Sahni Institute of Palaeobotany, Lucknow
Curtin University, Australia
Geological Institute, Bergen, Norway
Geological Survey of India
JAPEX, Japan
Madras University, Chennai
Russian Academy of Sciences, Moscow, Russia
National Institute of Oceanography, Goa
Oil & Natural Gas Commission Ltd.
USGS, USA

After the Symposium, a Field Workshop has also been proposed for Port Blair & Neill Island, Andaman & Nicobar Islands.

When ?

November/December, 2000

The First Circular shall be issued in November, 1998.

Contact person :

Dr Anil Chandra

Organising Secretary

International Symposium and Field Workshop on "Geodynamic evolution of Himalaya-Karakoram-Eastern Syntaxis (Indo-Burma Range)-Andaman Nicobar Island Arc and adjoining region"

Birbal Sahni Institute of Palaeobotany
53 University Road
Lucknow 226 007 (India).

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325822, 325945

3. A Brain Storming Session on "Coal Bed Methane"

The global coal bed methane (CBM) reserve is several times greater than the total reserves of all the known conventional gas fields, yet this energy resource is being exploited commercially only in USA. The harnessing feasibility of CBM has revitalized the coal research in the countries having large deposits of coal.

India has substantial coal as well as CBM reserves.

The Birbal Sahni Institute of Palaeobotany, Lucknow is organizing a Brain Storming Session on "Coal Bed Methane". In January-February, 1999 for its source evaluation, exploration and exploitation through various physical, chemical and coal petrological methods in order to generate new data inputs. The Session will be open to coal geologists, coal petrographers, organic geochemists and also to those associated with coal mining and industries and interested in the CBM exploration and utilization as an alternative fuel.

Programme

The session will include lectures and entertain oral presentation of scientific contributions on various aspects of coal bed methane.

Contact person :

Professor Anshu K. Sinha

Director

Birbal Sahni Institute of Palaeobotany
53, University Road
Lucknow 226 007, India

or

Dr Basant K. Misra

Organizing Secretary

Brain Storming Session on "Coal Bed Methane"

Birbal Sahni Institute of Palaeobotany
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हिन्दी पखवाड़ा

संस्थान में "हिन्दी पखवाड़ा" 22 सितम्बर, 1997 को एक समारोह के रूप में आयोजित किया गया जिसमें



डॉ० अमित कुमार घोष



लखनऊ विश्वविद्यालय के जन्तुविज्ञान विभाग के सेवानिवृत्त अध्यक्ष प्रोफेसर भूमित्र देव मुख्य अतिथि थे। प्रोफेसर भूमित्र देव ने "हिन्दी कैसे फले-फूले" नामक विषय पर हिन्दी राजभाषा की संवैधानिक स्थिति और विज्ञान लेखन में इसके सहज और अधिकाधिक प्रयोग पर बड़े मार्मिक ढंग से प्रकाश डाला।

इस अवसर पर संस्थान में कार्यरत अहिन्दी भाषी प्रदेशों के वैज्ञानिकों और कर्मचारियों ने 'स्वतंत्र भारत में हिन्दी की प्रगति' नामक एक लघु-भाषण प्रतियोगिता में भाग लिया। इस प्रतियोगिता में डॉ० अमित कुमार घोष ने प्रथम स्थान, श्रीमती वी० निर्मला ने द्वितीय तथा डॉ० अन्नमराजु रजनीकांथ ने तृतीय स्थान प्राप्त किया। इसी समारोह में इन्हें पुरस्कार से सम्मानित किया गया।

इसके अतिरिक्त संस्थान के दैनिक कार्य में हिन्दी का अधिकाधिक प्रयोग करने के लिये श्री जयचन्द्र सिंह, डॉ०



श्रीमती वी. निर्मला



डॉ० अ. रजनीकांथ



श्री जयचंद सिंह



डॉ० गजेन्द्र प्रताप श्रीवास्तव



श्री विजय कुमार निगम



श्री कुंवर प्रकाश सिंह



श्री अजय कुमार श्रीवास्तव

गजेन्द्र प्रताप श्रीवास्तव एवं श्री विजय कुमार निगम, श्री कुंवर प्रकाश सिंह एवं श्री अजय कुमार श्रीवास्तव को भी पुरस्कृत किया गया।



श्रीमती रुचिता बोस

हिन्दी में टंकण प्रतियोगिता में प्रवर लिपिक श्री हरीलाल और रुचिता बोस को क्रमशः प्रथम और द्वितीय पुरस्कारों से सम्मानित किया गया।

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(From 29.09.1996)

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Lucknow 226 007

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Chennai 600 025



Member (Ex-officio)

Sri Ravi Shanker
Deputy Director General
Geological Survey of India
Sector 'E', Aliganj
Lucknow 226 020

Appointments

Professor A.K. Sinha took over as Director
w.e.f. 14.11.1997.

Sri Pawan Kumar was appointed as Technical
Assistant 'A' w.e.f. 13.11.1997.

Sri Om Prakash was appointed as Technical
Assistant 'A' w.e.f. 13.11.1997.

Ms Chitra Chatterjee was appointed as Lower
Division Clerk w.e.f. 15.12.1997.

Promotions

Scientist 'E'

Dr A.K. Srivastava w.e.f. 1.4.1997

Scientist 'D'

Dr (Mrs) Usha Bajpai w.e.f. 1.4.1997

Dr (Mrs) Neerja Jha w.e.f. 1.4.1997

Dr (Mrs) Asha Khandelwal w.e.f. 1.4.1997

Dr B.K. Misra w.e.f. 1.4.1997

Dr M.R. Rao w.e.f. 1.4.1997

Dr Samir Sarkar w.e.f. 1.4.1997

Dr R.R. Yadav w.e.f. 1.4.1997

Scientist 'C'

Dr Rupendra Babu w.e.f. 1.4.1997

Dr A.P. Bhattacharyya w.e.f. 1.4.1997

Dr M.S. Chauhan w.e.f. 1.4.1997

Dr (Ms) Asha Gupta w.e.f. 1.4.1997

Dr (Mrs) Jyotsana Rai w.e.f. 1.4.1997

Dr (Mrs) Alpana Singh w.e.f. 1.4.1997

Dr B.D. Singh w.e.f. 1.4.1997

Dr (Mrs) Rashmi Srivastava w.e.f. 1.4.1997

Dr (Mrs) Rajni Tewari w.e.f. 1.4.1997

Technical Officer 'B'

Dr (Mrs) M. Chakraborty w.e.f. 1.4.1997

Smt Kamla M. Chhabra w.e.f. 1.4.1997

Mrs Asha Guleria w.e.f. 1.4.1997

Sri T.K. Mandal w.e.f. 1.4.1997

Technical Officer 'A'

Mrs Sunita Khanna w.e.f. 1.4.1997

Technical Assistant 'E'

Sri Rattan Lal Mehra w.e.f. 1.4.1997

Technical Assistant 'D'

Sri Chandra Bali w.e.f. 1.4.1997

Section Officer

Sri Ramesh Chandra w.e.f. 29.10.1997

Sri N.N. Joshi w.e.f. 14.11.1997

Accountant

Sri I.J.S. Bedi w.e.f. 14.11.1997

Assistant

Mrs Ruchita Bose w.e.f. 14.11.1997

Mrs Usha Chandra w.e.f. 14.11.1997

Sri Dhoom Singh w.e.f. 14.11.1997

Mrs P. Thomas w.e.f. 14.11.1997

Upper Division Clerk

Sri N.U. Kannan w.e.f. 10.12.1997

Sri Hari Lal w.e.f. 18.11.1997

Mrs Swapana Mazumdar w.e.f. 18.11.1997

Sri S.M. Pillai w.e.f. 10.12.1997

Sri Gopal Singh w.e.f. 18.11.1997

Sri K.P. Singh w.e.f. 18.11.1997

Sri Koshy Thomas w.e.f. 18.11.1997

Driver 'II'

Sri Nafis Ahmed w.e.f. 22.10.1997

Attendant 'II'

Mrs Maya Devi w.e.f. 22.10.1997

Mrs Munni w.e.f. 22.10.1997

Sri Kedar Nath w.e.f. 22.10.1997

Sri Kailash Nath w.e.f. 22.10.1997

Sri Mani Lal Pal w.e.f. 22.10.1997

Sri Mohammad Shakil w.e.f. 22.10.1997

Sri Bam Singh w.e.f. 22.10.1997

Sri Shree Ram w.e.f. 22.10.1997

Retirements

Sri Bhagwan Singh

Sri Bhagwan Singh had joined the Institute on 14 August, 1962 as a Lower Division Clerk. During his services of about 35 years, he worked in various capacities in administration as Upper Division Clerk, Assistant and finally as Section Officer. On 31 October, 1997 he retired on superannuation.



Dr Hafiz Ahmad Khan

Dr Hafiz Ahmad Khan had joined the Institute on 23 March, 1971 as Curator Herbarium. Thereafter, he was promoted as Senior Scientific Officer on 16 November, 1983. On 31 December 1997, he retired on superannuation.



Sri Paresh Chandra Roy

Sri Paresh Chandra Roy had joined the Institute as a Photographer on February 3,



1971. During his service period he worked in various capacities in Photography Section and on 31 March 1998 retired on superannuation from the post of Junior Technical Officer.

Smt. Kamla M. Chhabra

Smt. Kamla M. Chhabra had joined the Institute on 1 January, 1975 as a Junior



Technical Assistant. During her service period she worked in various capacities as Senior Technical Assistant, Junior Technical Officer and Technical Officer 'B'. On 31 March, 1998 she took voluntary retirement.

Journals acquired at BSIP Library

1. AAPG Bulletin
2. Abhandlungen des Staat/Mus Mineral Geol. Dresde
3. Acta Botanica Sinica
4. Acta Micropalaeontologica Sinica



5. Acta Palaeobotanica
6. Acta Palaeontologica Sinica
7. Acta Palynologica
8. Aerobiologica
9. Alcheringa
10. Ameghiniana
12. American Journal of Botany
13. American Journal of Science
14. American Midland Naturalist
15. Annls. Hist.-Nat. Mus. Natn. Hungary
16. Annals of Tectonics
17. Argumenta Palaeobotanica
18. Australian Journal of Earth Science
19. Blumea
20. Bol. Ig Inst. Geociencias USP
21. Boreas
22. Botanical Journal of USSR
23. Botanical Review
24. Bulletin British Museum Natural History (Geology)
25. Bulletin Geological Survey of Canada
26. Bulletin Geological Survey of India
27. Bulletin IASLIC
28. Bulletin Indian Geologists Association
29. Bulletin National Science Museum (Geology) ser. c
30. Bulletin ONGC
31. Bulletin Sciences Geologiques
32. Chemical Geology
33. Casopis pro Mineralogii a Geologii (Journal of Mineralogy & Geology)
34. Comunicacoes dos Servicos Geologicos de Portugal
35. Computers Today
36. Contribution from Hugo de Vries Laboratorium
37. Courier Forschungsinstitut Senckenberg
38. Cretaceous Research
39. Current Science
40. Dendrochronologia
41. Documenta Nature
42. Documenta Lab. Geol. Lyon
43. Earth & Planetary Science Letters
44. Earth Science Review
45. Eclogae Geologicae Helvetiae
46. ENVIS Bulletin
47. Episodes
48. Geobios
49. Geologia Columbiana
50. Geologica Carpathica
51. Geological Society of America Bulletin
52. Geologische Jahrbuch
53. Geologische Rundschau
54. Geology
55. Geophytology
56. Geoscience Journal
57. Geotimes
58. Grana
59. IAWA Journal
60. Ichnos
61. Indian Archaeology - a review
62. Indian Journal of Earth Science
63. Indian Journal of Petroleum Geology
64. Indian Mineral
65. International Journal of Coal Geology
66. International Journal of Radiation Measurement
67. Izvestia Akademii Nauk USSR (Proc. Acad. Sci. USSR)
68. Journal of Environmental Research
69. Journal of Faculty of Science
70. Journal of the Geological Society of India
71. Journal of Indian Botanical Society
72. Journal of Nannoplankton Research
73. Journal of Palaeontological Society of India
74. Journal of Palaeontology
75. Journal of Palynology
76. Journal of Quaternary Science
77. Journal of Stratigraphy
78. Journal of the Asiatic Society (Calcutta)
79. Journal of the Indian Association of Sedimentologist
80. Journal of Asian Earth Sciences
81. Journal of Geological Society of London
82. Journal of Structural Geology
83. Lethaia
84. Luslic
85. Kwartalnik Geologiczne
86. Mahasagar
87. Marine Micropaleontology
88. Materialy Archeologiczne Nowej Huty
89. Mededelingen Rijks Geologiczne Dienst
90. Memoires de la SGF
91. Memoir Geological Survey of India
92. Micropalaeontology
93. National Geographic
94. Naturalia Monspeiliensa
95. Nature
96. Nature und Museum
97. Ofiolih
98. Origin of Life
99. P.C. World
100. Palaeontographica Abt 'B'
101. Palaeontologia Cathayana
102. Palaeontological Journal USSR
103. Palaeontology
104. Paleobiology
105. Palaeopelagos
106. Palios
107. Palaeogeography Palaeoclimatology Palaeoecology
108. Palynology
109. Philosophical Transactions Royal Society of London
110. Phytomorphology
111. Precambrian Research
112. Proceedings of the Indian Academy of Sciences
113. Proceedings of the Indian National Science Academy (ser. a & b)
114. Proceedings of the Indian Science Congress
115. Quaternary International
116. Quaternary Research
117. Quaternary Science Review
118. Radiocarbon
119. Record of the Geological Survey of India
120. Revue de l Mus. de la Plata (bot.)
121. Review de Micropalaeontology
122. Review of Palaeobotany & Palynology
123. Revista Espanola de Micropaleontologia
124. Rheedea
125. Rozpavy UVG
126. Science
127. Science Reports of the Institute of Geosci. Univ. Tsukuba (sec. b)
128. Science Report Tohoku University Japan (2nd series)
129. Science Reports of Kanazawa University Japan
130. Science Reporter
131. Scientific American
132. Sedimentology
133. Senckenbergiana Lethaea
134. Sovetskaya Geologiya
135. Stvdia Geologica Salmanticensia
136. Taxon
137. Tectonics
138. Tectonophysics
139. Terra Nova
140. Tertiary Research
141. Thalasses
142. The Holocene
143. Travaux de la Section Scientifique et Technique
144. Tree Ring Bulletin
145. U.S. Geological Survey Professional Papers
146. University of California Publication (geol. sci.)
147. Vestnik Ustredniho Ustavu Geologickeho
148. Zapadne Karpaty (Series Paleontology)



**BSIP Library Aquisitions,
September 1997 - March 1998
Books**

Acc. No.	Author	Title of Book	Year	Call No.
55342	Sinha, A.K.	Geodynamic Domains in Alpine-Himalayan Tethys	1997	551.54 sin64g
55343	Vijayaraghavan, M.R.	Brown Algae Structure, Ultrastructure & Reproduction	1997	589.45 vij691b
55344	Dickins, M. <i>et al.</i>	Late Palaeozoic & Early Mesozoic Circum-Pacific Events & their Global correlation	1997	551.75 dic56l
55346	रामकृष्ण शास्त्री	शुक्ल यजुर्वेद संहिता	1996	294.59214 sha11s
55445	Lal, D.S.	Climatology	1997	551.6 lal15c
55446	Brickell, C.	Royal Horticultural Soc. A-Z Encyclopedia of Garden Plants	1996	588.74403 bri762e
55447	Clevely, Andi	Complete Book of Herbs	1995	635.7 cle599c
55449	Takhatajan, A.	Diversity and Classification of Flowering Plants	1997	582.13012 tak139d
55450	Allchin, B.	Origins of a Civilization	1997	930.1 all52o
55466	Ferguson, I.K.	Changing Coastlines effects of Climate Change	1996	551.6 tat188c
55467	Ferguson, I.K.	How Global is Global & How Warm is Warming	1996	551.6 tat188c
55468	Singh, Y.	Termite Control Measures in Buildings	1991	691.14 sin64t
55469	Pandalai, K.A.Y.	Other Side of Science	1994	500 pan192o
55470	Jones, D.	English Pronouncing Dictionary	1997	420.0321 jon713e
55471	Karthikeyan, S.	Florae Indicae Enumeratio Monocolylednae.	1989	584 kar149f
55472	Thomas, C.R.	Identifying Marine Phytoplankton	1997	589.4 tom591i
55473	Monrtanari, B.	Miocene Stratigraphy	1997	560.17 mon762m
55474	Biswas, C.	Gymnosperms	1997	585 bis545g
55476	Kingston, H.M.	Introduction to Microwave Sample Preparation Theory & Practice	1996	543.02 kin55i
55477	Crumlish, C.	Internet for Busy People	1996	001.642 cru888i
55478	Mansfield, R.	Power Point for Windows 95 for Busy People	1996	001.642 man317p
55479	Vaughan, T.	Media making it work 3rd ed.	1996	001.642 vau465m
55480-55482	Joshi, J.P.	Facts of Indian Civilization Recent Perspector...vol.1-3	1997	909.054 jos776f
55551	Davis, M.	Scientific Papers and Presentation	1996	500 dav29s
55552	Alley, M.	The Craft of Scientific Writing. 3rd ed.	1996	500 all54c
55553	Benton, M.J. & Harper	Basic Palaeontology	1997	560 ben444b
55554	विजय कुमार तिवारी	यूनीफाइड भारत का भूगोल	1997	551.54 tiw31u
55555	Vijayaraghavan, M.R. & Bhatia, B.	Red Algae	1997	589.41 vij691r
55558	Sinha, A.K. (ed.)	Himalayan Orogen and Global Tectonics	1992	551.54 sin64g
55565	Lloyd, D.G.	Floral Biology	1996	81.130446 llo775f
55566	Hutton, J.	Theory of the Earth with Proofs & Illustrations	1997	550.1 hut979t
55567	Iwatsuki, K. & Raven, P.H.	Evolution and Diversification of Land Plants	1997	581.38 iwa9e



55568	Bijlsma, R. & Loeschcke, V.	Environmental Stress, Adaptation and Evolution	1997	576.85 bij489e	55688	शिवगोपाल मिश्र	विज्ञान लोकप्रियकरण : प्रारम्भिक प्रयास	0	500 mis689v
55569	Khan, V.E. & Balukhavsky, A.N.	Historical Geotectonics Mesozoic and Cenozoic	1997	551.8 kha527h	55689	Ghose, P.	Kyon Aur Kaise	0	001.3 gho346k
55570	Briggs, D. & Walters, S.M.	Plant Variation and Evolution	1997	581.38 bri768p	55690	Sinha, A.K.	Geology of the Higher Central Himalaya.	1989	555.4 sin64g
55655	Fensome, R.A.	Eisenack Catalogue of Fossil Dinoflagellates : New Series	1995	561.93 fen366e	55692	Mabberley, D.J.	The Plant Book	1997	580.14 mab259p
55658	Rajamanickam, G.V. (ed.)	Proc. 8th & 9th Convention IGC (Roorkee) Aquisition of Modern Technique for the Development of Geoscience	1996	551 raj137p	55693	विश्वमित्र शर्मा	भारत रत्न	1996	001.1 sha83b
55659	Dept. of Applied Geol.	Abstract vol. 10th Convention of IGC & National Seminar on Precambrian Crustal Evolution & Metallogenesis	1996	551.13 dep11a	55694	विश्वमित्र शर्मा	नोबेल पुरस्कार कोश	1997	001.1 sha83n
55685	Sehgal, N.K.	Memoirs of Ruchi Ram Sahni, Pioneer of Sci. Popularisation in Punjab	1997	920 sen41m	55695	एन.आर. धर	रसायन शिक्षा पर विचार	1990	540 dhr539r
55686	Gadgil, M.	Diversity the Cornerstone of Life	0	500 gad117d	55696	अक्षय आत्मानन्द सरस्वती	योगासन और प्राणायाम	1997	613.7046 atm66y
55687	Daniel, J.C.	Extinction in Forever	0	591.042 dan221e	55697	सत्यप्रकाश सरस्वती	प्राचीन भारत में रसायन का विकास	1995	540.054 sar71p
					55698	सत्यप्रकाश सरस्वती	प्राचीन भारत के वैज्ञानिक कर्णधार	1995	509.2054 sar71p
					55699	Margulis	Five Kingdom (cd-rom)	1997	551.1 mar323f
					55701	Bhattacharji, S.	CSIR, Looking Back	1997	500.06 bha469c
					55702	Bennison	An Introduction to Geological Structure Maps	1997	551.1 ben439I

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