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SECOND PEOPLES EDUCATION CONGRESS

(October 05-08, 2009, Homi Bhabha Centre for Science Education, TIFR, Mumbai)

Focal Theme

SCIENCE EDUCATION IN INDIA PEOPLES COUNCIL OF EDUCATION

Dr. P. K. Sarkar
President

June 28, 2008

To:

**All the Vice-Chancellors of Indian Universities/
Directors of Research Institutes and National Laboratories/
Principals of Post Graduate and Degree Colleges/
Scientists/Social Activists/Policy Planners**

**Sub: Invitation to Attend Second Peoples Education Congress on Science Education
in India**

Dear Sir/Madam,

Peoples Council of Education (PCE) in association with Homi Bhabha Centre for Science Education (HBCSE), Tata Institute of Fundamental Research shall hold the Second Peoples Education Congress (PEC) on '**Science Education in India**' between October 05 and 08, 2009 at Mumbai. Major object of the Congress is to discover, develop and disseminate a new democratic system of science education reflecting the democratic needs, aspirations and creative potentialities of Indian people. The deepening crisis in education and declining scientific creativity in our country have necessitated rethinking and critical examination of the system of science education. We all, therefore, need to put our thoughts on science education as well as whole education system together honestly and sincerely in order to search a new democratic system of science education.

I, therefore, appeal to you and through you to your colleagues and research students to put your creative thoughts in a paper and participate in the deliberations of the Second Peoples Education Congress. All its details are given in this booklet for your kind perusal and necessary action. I would be grateful to you for **circulating** it among your colleagues and research students. It would be most helpful if you can draw and send us a list of such scientists and teachers of science who you think are creative and innovative thinkers.

With regards,

Yours faithfully,

P. K. Sarkar
President

Iswar Saran Ashram Campus, Allahabad 211004, INDIA

• Tel: 0532-2544170 (R), 0532-2544245(O), Fax: 0532-2544170, E-mail: issaald@gmail.com
website <http://www.peoplescouncilofeducation.info>; <http://www.pecindia.info>



**HOMI BHABHA CENTRE FOR SCIENCE EDUCATION
TATA INSTITUTE OF FUNDAMENTAL RESEARCH
NATIONAL CENTRE OF THE GOVERNMENT OF INDIA FOR NUCLEAR SCIENCE AND
MATHEMATICS**

V. N. PURAV MARG, MANKHURD, MUMBAI 400 088

FAX: 91-22-2558 5660, 2556 6803

EMAIL: HCP@HBCSE.TIFR.RES.IN

TEL: DIRECT +91-22-2556 2132

EPABX: +91-22-2558 0036, 2556 7711,
25554712

Prof. H. C. Pradhan
Centre Director

प्रो. एच. सी. प्रधान
केंद्र निदेशक
HBC/PEC/2009
March 26, 2009

To:

**All the Vice-Chancellors of Indian Universities/
Directors of Research Institutes and National Laboratories/
Principals of Post Graduate and Degree Colleges/
Scientists/Social Activists/Policy Planners**

**Sub: Invitation to attend Second Peoples Education Congress on Science Education
in India, October 5-8, 2009, Mumbai**

Dear Sir/Madam,

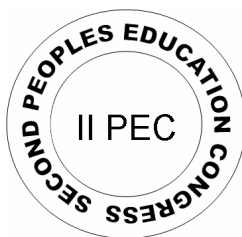
Peoples Council of Education (PCE) in association with the Homi Bhabha Centre for Science Education (HBCSE), Tata Institute of Fundamental Research shall hold the Second Peoples Education Congress (PEC) on '**Science Education in India**' between October 05 and 08, 2009 at HBCSE, Mumbai. The deliberations of the Congress will focus on the major questions of concern about science education in India. The Congress aims to critically appraise the state of science education in our schools, colleges and universities, and deliberate on the ways and methods of making it more universal, democratic, creative and people-oriented.

I am happy to cordially invite you and your colleagues to the Second Peoples Education Congress. I shall be grateful to you for giving it wide publicity in all the departments of your university/institute/college and making this event known to your colleagues and friends. Let us ensure participation of every concerned person from different universities / institutes / colleges / organizations in this vital national endeavour.

With regards,

Yours sincerely,

(H. C. Pradhan)
Centre Director



Second Peoples Education Congress

100 PREAMBLE

Peoples Council of Education in association with Homi Bhabha Centre for Science Education (HBCSE), Tata Institute of Fundamental Research shall hold Second Peoples Education Congress between October 05 and 08, 2009 at Mumbai with a view to discovering, developing and disseminating a new democratic system of science education reflecting democratic needs, aspirations and creative urges of people of India.

200 PEOPLES COUNCIL OF EDUCATION

Peoples Council of Education (PCE) is a national council working in the field of education. Although it was constituted on August 15, 1995, it was formally registered on June 17, 1998 with the Registrar, Societies and Chit Fund under Societies Registration Act, 1861 with its registered headquarters at Allahabad. Its headquarters building is under construction in a plot of 3.75 acre land at Meerakpur Uparhar, Madoka Road, Dandi in Allahabad.

The major object of the Peoples Council of Education is to discover, develop and create a new democratic system of education in consonance with the democratic needs, aspirations and creative potentialities of people of India. It seeks to achieve the aforesaid goal through numerous democratically created instruments in the field of education and health. Some of the instruments are: Peoples Education Congress, Common schools under the name of Flower Valley Peoples School, a new institute of development and communication of Science under the name 'Lok Vigyan Sansthan' and Lok Vigyan Kendra from village to national level, a new medical and health science education institute under the name 'Lok Swasthya Vigyan Sansthan/Lok Vigyan Swasthya Kendra from village to the national level, 'Lok Vigyan Pustakalaya' and similar other instruments. All pursuits of Peoples Council of Education are rooted in principles of democracy and cooperation.

300 PEOPLES EDUCATION CONGRESS

Peoples Council of Education organizes Peoples Education Congress with a singular motive of discovering, developing and disseminating a new democratic system of scientific education. Such a new democratic system of scientific education once created ought to be able to flower the creative potentialities of peoples of India and thereby enable them to enjoy higher quality of material, social and cultural life in harmony with Nature and Society. First Peoples Education Congress (PEC) was held from September 15 to 17, 2005 at University of Allahabad, Allahabad. 'Science Communication' was its focal theme. Papers and proceedings of the First Peoples Education Congress are under print and one volume containing the abstracts and keynote papers are already available.

400 FOCAL THEME

The Peoples Council of Education has resolved to focus the deliberations of the Second Peoples Education Congress on '**Science Education in India**'. A note on 'Science Education in India', prepared by the Core Group and National Academic Advisory Committee is given on page 10.

500 CONTEXT

The deliberations of the First Peoples Education Congress on 'Science Communication', revealed very poor quality of science communication to children and students in schools, colleges and universities resulting in lower order of creativity in science and very high order of anti-science or unscientific mental dispositions in the country. Even majority of the science teachers and research scientists exhibited strong anti-science dispositions, attitudes and behaviour, although unconsciously. Peoples Council of Education, therefore, resolved to focus the deliberations of the Second Peoples Education Congress on '**Science Education in India**'.

600 OBJECTIVES

The Second Peoples Education Congress on 'Science Education In India' seeks to achieve the following:

0601 To appraise the status of science education in schools, colleges, universities and research institutes and, also its interconnections with humanities and social sciences.

0602 To appraise the relevance of contemporary educational institutions and organizations to science education.

0603 To determine the appropriateness of syllabi, text books and pedagogy of science education in schools, colleges and universities.

0604 To determine the nature of relationship between science educational institutions and society and between science teachers and society.

0605 To appraise the nature of the relationship between science education and democratic needs, aspirations and creative urges of peoples and society.

0606 To ascertain the nature of social bonds between and among students and teachers.

0607 To ascertain the impact of science and technology coaching institutes on science education in schools, colleges and universities.

0608 To determine the impact of corporatisation and marketisation on science education in schools, colleges, universities and research institutes.

0609 To appraise the impact of commercialization of education on science education.

0610 To discover, develop and disseminate a new democratic system of science education in congruence with the democratic needs and aspirations of the people of Indian Democratic Republic which is capable of flowering the creative and innovative potentialities of all young minds in particular and peoples of all sections in general.

0611 To discover, develop and disseminate a new democratic system of science communication capable of building bridges between scientists and the people and between and among all sections of the people.

700 THEMATIC STRUCTURES

The deliberations of the Second Peoples Education Congress on 'Science Education In India' will be grouped into following categories:

- I. Plenaries
- II. Panels
- III. Special National Seminars/Symposia
- IV. Public or Special Lectures
- V. Exhibition
- VI. Task Force

Besides, a series of local, regional and national workshop will be held prior to and after the congress.

701 Plenaries

There will be 8 plenaries, each of 2-hour duration during the Second Peoples Education Congress. Most of the plenaries will be held between 0900 and 1300 hours every day. There will be 3 main speakers and 2 discussants in each plenary. Tentative themes of the plenaries are as follows:

- 1. **Concept and Theory of Science Education: From Current to New.**
- 2. **Status of Science Education in Indian Schools and Colleges: From Current to New.**
- 3. **Status of Science Education in Indian Universities: From Current to New.**
- 4. **The New Parameters of Change in Science Education**
- 5. **History and Philosophy of Science in Science Education**
- 6. **New Pedagogy of Science Education**
- 7. **New System of Science Communication**
- 8. **Evolving New Democratic System of Education Reflecting Peoples' Democratic Needs, Aspirations and Creative urges.**

702 Panel Discussions

It is proposed to constitute following panels on 'Science Education In India', each panel having a chairperson and convener. All the Panels shall hold their deliberations in parallel sessions in the afternoon. Each Panel shall have 15 to 25 members making written presentations. The themes of the Panels are as follows.

- I. **Physical and Chemical Science Education**
- II. **Biological Science/Life Science Education**
- III. **Ecological and Environmental Science Education**
- IV. **Medical and Health Science Education**
- V. **Geo-Science and Planetary Science Education**
- VI. **Engineering Science Education**
- VII. **Agricultural Science Education**
- VIII. **Social Science Education**
- IX. **Mathematical Science Education**
- X. **Computer Science and Information Technology Education**
- XI. **Scientific History in Science Education**
- XII. **History and Philosophy of Science in Science Education**
- XIII. **Language of Science Education**

703 Special National Seminars/Symposia

It is proposed to hold national seminars/symposia on following themes during the Second Peoples Education Congress.

- I. **National Curriculum Framework 2005 and Science Education in Schools**
- II. **Medical and Health Science Education in India**
- III. **Common System of Democratic Education**

704 Public/Special Lectures

A few public or special lectures on 'Science Education' by creative and innovative scientists/thinkers/philosophers/social activists will be organized during the Second Peoples Education Congress. Each lecture will be of one hour duration and shall normally be held between 1730 and 1830 hours.

705 Exhibitions

Peoples Council of Education (PCE) and Homi Bhabha Centre for Science Education (HBCSE), Tata Institute of Fundamental Research (TIFR), propose to organize an exhibition on **Science Education in India** during the forthcoming Second Peoples Education Congress in October 5-8, 2009 at Mumbai. The major object of the exhibition is to depict newer and better methods of science education in schools, colleges and universities. Each exhibit ought to reflect some degree of innovation and creativity. The exhibition can be in Hindi, Marathi, Gujarati and English. It can be in any form – posters, demonstration, modules, activities, films, audio-visuals etc. However, a brief write-up on the proposed exhibits is necessary. Such write-up ought to be sent to the Convener of the exhibition latest by July 15, 2009.

Since the Peoples Education Congress seeks to discover newer and better democratic system of science education reflecting needs, aspirations, creativity and problems of people of India all exhibits are expected to contribute to the aforesaid goal.

Interactive sessions with children and parents would be held during the exhibition. This may be kept in view while preparing exhibits.

The exhibition is open to all. Universities, colleges, schools, autonomous science education groups etc are most welcome to exhibit their creations on science education.

All those who wish to participate in the exhibition are advised to send the following information to the convener, Ms. Meena Kharatmal latest by July 15, 2009:

- * Name
- Affiliation
- Address (Telephones & e-mails)
- A short write-up within 1000 words on the exhibits
- Requirements; Panels, Tables, Space, Screen, Computer, etc
- Registration Fee

All correspondence regarding exhibition should be addressed to the following:

Ms. Meena Kharatmal
Convener, Exhibition
Second Peoples Education Congress
Homi Bhabha Centre for Science Education
Tata Institute of Fundamental Research
V. N. Purav Marg, Mankhurd
Mumbai 400088
M: 09821550522,
E-mail: peoples@hbcse.tifr.res.in

706 Task Force

A Task Force constituted by the Peoples Council of Education and Homi Bhabha Centre for Science Education shall deliberate over the deliberations on 'Science Education in India' in order to search the new ideas, theories and methods of democratic system of science education.

Based on its assessment the Task Force shall prepare its recommendations for new policy formulations and actions to be taken up by the Peoples Council of Education, the Ministry of Science & Technology, the Ministry of Human Resource Development, the University Grants Commission, NCERT and such other national and state educational bodies which are concerned with science education in India. The Task Force shall normally hold its sessions during post-dinner session and shall submit its report to the assembly of the delegates on the last day of the Congress between 1500 and 1600 hours.

800 SUBMISSIONS OF PAPERS

Those who are engaged in science education in schools, colleges and universities or those who are involved in Science Communication or engaged in policy formulations are hereby cordially invited to submit their papers on any aspect of science education. Such scholars and activists from abroad, particularly from Afro-Asian and Latin American countries too will be welcomed provided that their papers are based on the concrete study of the science education in their own countries. Those who have innovated or discovered new methods and theories of science education or education within or outside the formal system of education shall be most welcome to present their discoveries/innovations/creations at the Second Peoples Education Congress.

The length of the full paper can be within 5000 and 7000 words or 15-20 typed pages on A4 size paper. Abstract of each paper should be written within 500 words. The Abstracts should highlight the newness of theories and methods. The paper can be written in Hindi or in English.

Three copies of the full paper and its abstracts in triplicate along with its CD should be sent to the General Secretary, Peoples Council of Education.

The last date for submission of the abstracts of papers is June 15, 2009 and the last date for submission of full papers is August 15, 2009.

900 REGISTRATION

It is imperative for all those who wish to attend the Second Peoples Education Congress get themselves registered by paying the stipulated registration fee to the Peoples Council of Education by an account payee DD in favour of Peoples Council of Education payable at Allahabad. Details of the registration fee are as follows:

Registration Category

Category	Up to August 31, 2009	From September 01, 2009
Member-Delegate	Rs. 1000.00	Rs. 1200.00
Non-Member Delegate	Rs. 1500.00	Rs. 2000.00
Institutional Delegate:		
(a) Member	Rs. 1200.00	Rs. 1500.00
(b) Non-Member	Rs. 2000.00	Rs. 2500.00
Student Delegate	Rs. 700.00	Rs. 900.00
Foreign Delegates	Rs. 2500.00	Rs. 3000.00

All the registered delegates shall be entitled to receive the published material of the Second Peoples Education Congress, free food and free hostel accommodation and local transport. Those who are not members of the Peoples Council of Education can either become member or pay the fee meant for the non-member.

Those who have paid the registration fee but are not able to attend the Second Peoples Education Congress can either get the registration fee refunded or get the publication of the Second Peoples Education Congress on request. **Last date for request for refund of the registration fee is September 30, 2009. No request for refund shall be entertained after the last date i.e. after September 30, 2009. The fee paid will be refunded after making 35% deduction.**

1000 ACCOMMODATION

Hostel/Guesthouse accommodation will be provided to all the registered outstation delegates on receipt of request before September 15, 2009. The Organizing Committee shall not be in a position to provide accommodation to those who would ask for it on October 05-08, 2009 or after September 15, 2009. Also, the unregistered delegates shall not be provided accommodation. Registered delegates, therefore, are advised to send the **Food and Accommodation Form** given in the end of it to the Local Secretary, **Dr. K. K. Mishra so as to reach him before September 15, 2009. No one without paper shall be provided accommodation.**

1100 TRAVEL

It is hoped that those who are working in schools, colleges, universities and research Institutes should be able to seek travel support from their respective organizations. The Peoples Council of Education and Homi Bhabha Centre for Science Education shall strive to meet the travel expenses of resource persons and some such scholars whose papers are of high quality and who are either retired or unable to raise travel support from any other source. Such scholars are advised to write to the General Secretary, Peoples Council of Education before July 30, 2009. The support can be full or partial depending upon availability of funds. The General Secretary shall communicate the decision of the appropriate committee by September 01, 2009. Even such scholars are to get themselves registered by paying the stipulated registration fee.

1200 SIGHT SEEING

The Organizing Committee shall organize sight seeing for the delegates of Second Peoples Education Congress for half-day on one of the four days. Those who wish to see Mumbai are advised to write to the Local Secretary, Dr. K. K. Mishra before September 15, 2009.

1300 WHOM TO CORRESPOND WITH?

Please write to the following for membership, registration, papers and travel support:

Dr. N. P. Chaubey
General Secretary
Peoples Council of Education
Iswar Saran Ashram Campus
Allahabad 211004
Tel: (O) 0532-2544245, Telefax : 0532-2544170
E-mail: issaald@gmail.com
<http://www.peoplescouncilofeducation.info>; <http://www.pecindia.info>

Papers and bank draft should be sent under a registered post. All payment should be by an account payee DD in favour of Peoples Council of Education payable at Allahabad.

Please write to the following for accommodation, food, transport and sight seeing:

Dr. K. K. Mishra
Local Secretary
Second Peoples Education Congress
Homi Bhabha Centre for Science Education
Tata Institute of Fundamental Research
V. N. Purav Marg, Mankhurd
Mumbai 400088
Tel: (O) 022-25555242, 25567711, M: 0-9867210755
E-mail: pec2@hbcse.tifr.res.in
Website: www.hbcse.tifr.res.in

Please write to the following if you wish to put your creations/innovations having bearing on science education in the Exhibition:

Ms. Meena Kharatmal
Convener
Exhibition on Science Education
Homi Bhabha Centre for Science Education,
Tata Institute of Fundamental Research
V. N. Purav Marg, Mankhurd,
Mumbai 400088
E-mail: peoples@hbcse.tifr.res.in
M: 09821550522

One may correspond with the respective chairman or convener of panels of Science Education in India as given below:

PANELS ON SCIENCE EDUCATION IN INDIA

Panel	Chairman	Convener
I. Physical and Chemical Science Education	Prof. Meher H. Engineer Bose Institute, 93/I, APC Road, Kolkata 700009 Tel: 033-22286089 E-mail: mengineer2003@yahoo.com	
II. Biological Science/Life Science Education	Prof. P.K. Yadav School of Life Sciences Jawaharlal Nehru University, New Delhi 110067 Tel: 011-26704530, 26704520 e-mail: pk0200@mail.jnu.ac.in	Dr. M. C. Arunan Head, Life Science Department Sophia College, Bullabhai Desai Road Mumbai 400026 E-mail: mcarunan@gmail.com
III. Ecological and Environmental Science Education	Prof. P.S. Ramkrishnan (Chairperson) Emeritus Professor School of Environmental Sciences Jawaharlal Nehru University New Delhi 110067 Tel: 011-26704326 Fax: 011-26741262 M: 09312257870 E-mail: psr@mail.jnu.ac.in	Dr. Ram Boojh Programme Specialist (Ecological and Earth Sciences) UNESCO Office for Bhutan, India, Maldives and Srilanka B-5/29m Safdarjung Enclave, New Delhi 110 029 E-mail: r.boojh@unesco.org ; ramboojh1@yahoo.com
	Prof. Chitra Natarajan (Co-Chairperson) Homi Bhabha Centre for Science Education, TIFR, V. N. Purav Marg, Mankhurd, Mumbai 400 088 E-mail: chitran@hbcse.tifr.res.in M: 0-9821636185	

IV. Medical And Health Science Education	<p>Prof. P. K. Sarkar 254, Block B, Lake Town, Kolkata 700089 (W.B.) M: 09433263277 E-mail: bodhi_fha@dataone.in</p>	<p>Dr. Saumya Panda Consultant Dermatologist, Ashok Swapna, 122/4, Dr. Jiban Ratan Dhar Road, Kolkata 700028 (West Bengal) M: 09831163975 E-mail: saumyapan@gmail.com</p>
V. Geo-Science and Planetary Science Education	<p>Prof. Vinod K. Gaur Distinguished Professor Indian Institute of Astrophysics Bangalore 560034 (Karnataka) Tel: (O): 080-25051931 (R): 080-23437410 E-mail: vgaur@iiap.res.in</p>	
VI. Engineering Science Education	<p>Prof. Rahul Varman Department of I.M.E. Indian Institute of Technology Kanpur, IIT Post Office, Kanpur 208016 (U.P.) Tel: (O): 0512-2597970, (R): 0512-2598753 E-mail: rahulv@iitk.ac.in</p>	-
VII. Agricultural Science Education	<p>Dr. I.P. Abrol Centre For Advancement of Tenable Agriculture (CATA) National Agricultural Science Complex, First Floor, B.P.S. Marg, Pusa New Delhi-110012 Tel: 011-25848188; M. 09810772161 E-mail: abrolip@gmail.com</p>	<p>Prof. S.L. Mehta 71, Gokul Nagar, Near Bohra Ganesh Temple Udaipur 313001 M: 09460919188 0294-2470123</p>
VIII. Social Science Education	<p>Prof. Girijesh Pant Vice-Chancellor Doon University, Dehradun E-mail: gpant49@gmail.com M: 09897384111</p>	<p>Dr. N.P. Chaubey General Secretary Indian Academy of Social Sciences Isvar Saran Ashram Campus Allahabad 211004 E-mail: issaald@gmail.com Tel: 0532-2544245 (O), 2544170 ®</p>
IX. Mathematical Science Education	<p>Dr. K. Subramaniam Homi Bhabha Centre for Science Education, TIFR, V.N. Purav Marg Mankhurd, Mumbai 400088 M: 09869020791 E-mail: subra@hbcse.tifr.res.in</p>	
X. Computer Science and Information Technology Education	<p>Prof. B. D. Chaudhari Head Department of Computer Science & Engineering Motilal Nehru National Institute of Technology, Teliarganj, Allahabad 211002 (U. P.) Tel: (O): 0532-2271605, (R): 0532-2541066 M: 09415014445 E-mail: bdc@mnnit.ac.in</p>	
XI. Scientific History in Science Education	<p>Prof. Krishna Mohan Shrimali 155, Vaishali, Pitampura Delhi 110088 Tel: (O):011-27666659, (R): 011-27314823</p>	<p>Dr. P.K. Chowdhary 37, Sriradha Apartment Plot 3, Sector 9, Dwaraka New Delhi 110077 Tel: 011-32989121</p>

XII. History and Philosophy of
Science in Science Education

E-mail: kmshrimali@yahoo.com

Prof. C. K. Raju
B-56, Tarang Apartments
19, I. P. Extension,
Delhi 110092

Tel: (R): 011-22726015

Fax: 011-22724533

M: 0-9310431415

E-mail: c_k_raj@hotmai.com

M. 09818446601

E-mail: pkcdu@yahoo.com

Dr. G. Nagarjuna

Homi Bhabha Centre for Science
Education, TIFR, V.N. Purav Marg
Mankhurd, **Mumbai 400088**

E-mail: nagarjun@gnowledge.org

M: 09969262050

XIII. Language of Science
Education

Dr. K. K. Mishra

Local Secretary

Second People Education

Congress

Homi Bhabha Centre for science
Education, TIFR,

V. N. Purav Marg, Mankhurd

Mumbai-400 088

E-mail: kkm@hbcse.tifr.res.in

SYMPOSIA/SEMINARS/COLLOQUIA

1. National Curriculum Framework 2005 and Science Education In Schools	Dr. Vinod K. Raina Bharat Gyan Vigyan Parishad YWA Hostel No. 2 G- Block, Saket New Delhi 110017 E-mail: vinod.raina@vsnl.com	
2. Medical and Health Science Education In India	Prof. P. K. Sarkar 254, Block B, Lake Town, Kolkata 700089 (W.B.) M: 09433263277 E-mail: bodhi_fha@dataone.in	Dr. Saumya Panda Consultant Dermatologist, Ashok Swapna, 122/4, Dr. Jiban Ratan Dhar Road, Kolkata 700028 (W.B.) M: 09831163975 E-mail: saumyapan@gmail.com
3. Common System of Democratic Education	Prof. Harikesh Singh Head Department of Foundation Education National University of Educational Planning and Administration 16-B, Sri Aurobindo Marg New Delhi 110016	

A NOTE ON SCIENCE EDUCATION IN INDIA

01. PREAMBLE

Peoples Council of Education shall hold the Second Peoples Education Congress under the auspices of Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research between October 05 and 08, 2009 at Mumbai with a view to discovering, developing and disseminating a new democratic system of science education in Indian schools, colleges and universities reflecting the peoples' democratic needs, aspirations and creative urges.

02. FOCAL THEME

The Peoples Council of Education has resolved to focus the deliberations of the Second Peoples Education Congress on **Science Education In India**.

03. CONTEXT

First Peoples Education Congress deliberated over 'Science Communication'. Its deliberations revealed very poor status of science communication in schools, colleges and universities. It was suggested that qualitative change in science communication in schools, colleges and universities is a must for overall qualitative improvements in and impact of science communication at a national level. The assembly of delegates resolved to focus the deliberations of the Second Peoples Education Congress on "Science Education In India".

Today Indian Education is in deep crisis. Its crisis is deepening day by day. Ever declining creativity and innovativeness in Indian society is highly correlated with the ever declining creativity and innovativeness in the realm of science, technology and art. This is so notwithstanding high rate of growth in educational institutions or so-called high rate of economic growth. Students' declining interest in science education is now worrying the Government as well as the policy planners. Despite Parliament's Scientific Policy Resolution of 1958 placing great faith in self-reliance in the field of Science & Technology, India's dependence on foreign science and technology has been growing rapidly. Even the '**Import-Substitution Policy**' of 1950s has been given goodbye. Now India is seeking advice from '**foreign experts**' for every little thing freely and openly. Even the cricket or hockey coaches have to be imported from abroad. Airport trolleys and coffins have to be imported from abroad. Aero planes have to be bought in foreign markets. All weapons of war and mass destruction had to be purchased from the foreign manufacturers. Even the cleaning of drains and building of bridges require foreign collaboration. So-called huge manpower in Science & Technology, thus, has become redundant. Question is why?

India is now said to be having so-called world-class institutes of Managements and higher learning, yet Indian society is poorly managed. Inefficiency and incompetence are reflected in all spheres of production, distribution, production and social relations. Question is why?

Quite a large number of scientists and technologists working in India are said either having foreign degrees or foreign exposure. Yet the quality of science books taught in schools, colleges and universities are quite inferior in comparison to foreign science books. Moreover, dependence of Indian students on foreign science and technology books and journals are much greater than expected. Science books in Indian languages are still much worse. Question is why?

Coaching institutions in the name of science and technology education have mushroomed all over India. Formal science educational institutions have become meaningless. Certificates and degrees given to students do not carry any value. Question is why?

Suicides by students in IITs and other institutes are rising. Depression among students of schools, colleges, technical institutions is rising. Violence in the school, college and university campuses is on rise. Question is why?

Alienation of scientists and technologists from Nature, Society, Peoples and also from themselves is now visible everywhere. Slavish rather than independence, imitation rather than creativity, authoritarian rather than democratic are the dominant features of personality of majority of Indian scientists. Question is why?

Thus, it is apparent that the question why needs to be investigated thoroughly and comprehensively. While the inquiry into the question ‘**why**’ may take several directions, one direction of central importance is Indian system of education as a whole or ‘**Indian system of science education**’ in particular. A beginning can be made with science education which itself may take several years of collective efforts by a large number of scientists. Slowly but steadily it would be possible to comprehend the Indian system of science education and evolve a new system of science education in India.

The Peoples Council of Education and Homi Bhabha Centre for Science Education, TIFR, therefore, have resolved to focus the deliberations of the Second Peoples Education Congress on ‘**Science Education in India**’

04. OBJECTIVES

By focusing the deliberations of the Second Peoples Education Congress on ‘**Science Education in India**’, the Peoples Council of Education and Homi Bhabha Centre for Science Education seek to achieve the following goals:

- 0401 To appraise the status of science education in schools, colleges, universities and research institutes and, also its interconnections with humanities and social sciences.**
- 0402 To appraise the relevance of contemporary educational institutions and organizations to science education.**
- 0403 To determine the appropriateness of syllabi, textbooks and pedagogy of science education in schools, colleges and universities.**
- 0404 To determine the nature of relationship between science educational institutions and society and between science teachers and society.**
- 0405 To appraise the nature of relationship between science education and democracy and science education and democratic needs and aspirations of peoples and society.**
- 0406 To ascertain the nature of social bonds between and among students and teachers.**
- 0407 To ascertain the impact of science and technology coaching institutes on science education in schools, colleges and universities.**
- 0408 To determine the impact of corporatisation and marketisation on science education in schools, colleges, universities and research institutes.**
- 0409 To appraise the impact of commercialization of education on science education.**
- 0410 To discover, develop and disseminate a new democratic system of science education in congruence with the democratic needs and aspirations of the people of Indian Republic which is capable of flowering the creative and innovative potentialities of all young minds in particular, and peoples of all sections in general.**

- 0411 To discover, develop and disseminate a new democratic system of science communication capable of building bridges between scientists and the people and between and among all sections of the people**

05. CONCEPT OF SCIENCE

Science means knowledge as well as the method by which the knowledge is acquired. It is an objective knowledge of non-living and living things including man and society. What does knowledge mean? Knowledge means answer to questions '**what**', '**how**', '**why**' and '**where**' about a thing or an object. The adjective '**objective**' signifies '**what is within the given thing or object**'. An object or a thing is independent of the knower or the scientist. How to know '**What is within the given object**' is, hence a problematic. An individual answers the question what through his perceptual processes. Normally, the perception-based answer is likely to have greater quantity of error, which is corrected to some extent through practice. It calls for verification not only by the perceiver but also by others. It also calls for development and application of a method or methods which is or which are independent and can be used by everyone who wishes to verify the answer. This process of collective investigation and collective verification makes the objective knowledge *social*. Thus, science is by its very nature social. What is social is public. There is no place, therefore, for 'privacy' and **authority** in science.

A thing or an object keeps on changing. Science of a thing or object too changes. That is to say, there is nothing like permanent science or eternal science.

A thing or an object exists in space and time. So science of a thing or an object too is conditioned by space and time. Since a thing or an object has history, so science too has history. That is to say, science too is historical.

There is close and intimate connection between inanimate or non-living thing and animate or living thing and between lower life and higher life. Interconnection, interdependence and interpenetration of one thing into another is the characteristic feature of living and non-living matter. Under certain conditions non-living thing transforms itself to living thing and living thing to non-living thing. The process of transformation is quite complex. Nature contains non-living as well as living objects including man and society. The phrase science of '**Nature-Man-Society**' encompasses all that exist. In other words, science is material in nature, but not the matter itself. Science as a knowledge of Nature-Man-Society is colourless, shapeless and weightless. Science as an objective knowledge of Nature is **unitary**. It is not plural. It is; therefore, wrong to use the word '**Sciences**'. Question is do our schools, colleges and universities communicate this concept of science to students? Do our students and teachers know that their social position may block or distort their science? Do they know that authority has no place in science? Do they comprehend the distinction between science and no-science or between science and metaphysics?

06. CONCEPT OF EDUCATION

Genesis of current system of Education including science education lies in the British rule in India. Macaulay is said to be its founder. It was designed to fulfill the needs of the British rule. It has nothing to do with the democratic needs and aspirations of people of India. Its main character remained colonial and imperialistic.

Independence from the British rule provided a golden opportunity to peoples of India to destroy the colonial education and create a new democratic system rooted in their democratic needs and aspirations. Various attempts through Education Commissions were made in this direction. But till date the British colonial system of education continues thriving. All new additions are either neo-colonial or feudal providing valuable service to the Corporate World and market forces but injurious to democratic system of education. Slowly but steadily American system of education has made greater inroads in it.

Principles of '**divide and rule**', '**hierarchy**' and '**sectarian and slavish outlook**' '**marketisation**' and '**commodification**' shaped and continue shaping science education in Indian schools, colleges, universities and research institutes. Science is divided and redivided in superior

and inferior categories. Physics, for example, is a superior science and social science is an inferior science. Nuclear physics is far more superior to physics. One who knows physics need not know biology or social science or one who knows social science need not know biology or physics. One who knows economics need not know physics or biology or mathematics. Also, one need not comprehend the interrelationships between non-living and living things/objects. Idea of history or philosophy of science is altogether unwanted or undesirable in science education. There is no place for democracy in science education. How can students be equal to their teachers? Students need not comprehend the concept of science even after completing their doctoral degrees. Competition and not cooperation guide and determine fate of science education in schools, colleges and universities. Good science education in urban areas, and poor science education in rural areas, good science education for the rich and poor science education for the poor. Good science education in English and bad science education in Indian languages. Actually, Indian languages are considered unfit for science education by majority of the university and IIT science professors. Such is the status of science education in India.

Question arises should it continue? Or should it be changed? If it is to be changed how to do it? What should be the parameters of new science education? Democracy? Authoritarianism? Peoples needs and aspirations? Or Corporate World's and market forces' needs and aspirations? Freedom or slavery? Equality or inequality? Competition or cooperation? Love to all or hatred to all? What should be ethical and philosophical foundation of science education? Can creativity, innovativeness and interest in science be increased by creating a few rich centres of science education? Should science be technology savvy?

07. QUESTIONS

The deliberations of the Congress will focus on the major questions of concern surrounding the area of science education in India: Has science education truly empowered and united the people of our country or has it increased the divide between the privileged and the underprivileged? Has it strengthened the democratic and secular foundations of our country? Are the institutional structures and practices in our country conducive to innovation and creativity? Have we fragmented and over compartmentalized science education? How can we impart holistic science education and help people comprehend the complex relations between science, technology and society? Do we adopt sound pedagogic techniques for science education? What can we do to arrest the failure and underperformance in mathematics, especially among the underprivileged? What can we do to make the laboratory an integral component of science education? What effect has the new globalization and its attendant market forces made on the nature, scope and goals of science education in our country? What is the nature of the relationship between language and science education? How can we convert the multilingual character of our society into an asset for science learning? How can we enrich science education by giving it a historical and philosophical orientation? What can we do to attract meritorious students towards careers in science and research? Does science education in our country promote creativity? Why is our country lagging behind many other countries in research output, innovations and inventions? Is there any connection/association between science education/education and growing alienation among our scientists/technologists/educated people from society and nature? Many more questions can be added to the list.

08. PRE-AND-POST CONGRESS WORKSHOPS

Peoples Council of Education and Homi Bhabha Centre for Science Education propose to organize a series of pre-and-post Congress local and regional workshops and Conferences on '**Science Education in India**' in order to arouse fresh thinking among the science teachers and scientists and enlist their participation. First Core Group Workshop was held between March 22 and 24, 2007 at Homi Bhabha Centre for Science Education, Mumbai. Its proceedings and papers are available in print as well as on Websites: <http://www.peoplescouncilofeducation.info>; <http://www.pecindia.info> and www.hbcse.tifr.res.in. Planning of regional workshops at Allahabad, Bangalore, Kolkata, Nagpur, New Delhi and other places is on. Collaborative support from universities and research institutes are being sought. Second Workshop on 'Science Education in India' is scheduled to be held in July, 2008 at New Delhi.

HOMI BHABHA CENTRE FOR SCIENCE EDUCATION TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Homi Bhabha Centre for Science Education (HBCSE) is a National Centre of the Tata Institute of Fundamental Research (TIFR), the premier institute of the country in science and mathematics. The broad goals of the Centre are to promote equity and excellence in science and mathematics learning from the school to undergraduate college stages of education. The Centre's wide-ranging activities may be grouped under the following heads:

Research in Science & Mathematics Education

As part of TIFR (Deemed University), HBCSE runs a Ph.D. programme in Science Education, which includes pre-Ph.D. courses in cognitive science, history and philosophy of science, research methodology, statistical techniques and related areas. The Centre has held several national and international conferences and workshops in its areas of interest. A major international conference on research in Science, Technology and Mathematics Education--the third in a series of conferences (called epiSTEME) initiated by HBCSE--is scheduled in January 2009. Sixteen Research Scholars are currently pursuing Ph.D. at the Centre. Visuo-spatial reasoning, design and technology education, algebra education, alternative conceptions in different areas of science, and knowledge organization are some of the current research areas. Seminars, colloquia and visits by scientists and educationists from within the country and abroad sustain a vibrant academic ambience at the Centre.

Curriculum, Laboratory and Materials Development

Research and grassroots experience of the Centre together inform the development of innovative curricular and co-curricular materials, and laboratories in school science and mathematics. Several co-curricular and popular science books have been brought out both for children and general readers. HBCSE members have co-authored science and mathematics textbooks by National Council of Educational Research and Training, Govt. of Maharashtra, etc. A highlight of the Centre's curricular effort is the development of an innovative primary science curriculum, supported by textbooks, workbooks & teacher's books, which are now brought out by Oxford University Press. A similar effort has been taken up in primary school mathematics. The Centre has been intensively involved as a partner in a European Commission-funded project (SELF) of developing a platform for collaborative sharing and creation of open educational materials. Recently, the Centre has launched a website in Hindi for educational electronic materials (<http://ehindi.hbcse.tifr.res.in>)

Teacher Orientation and Science Popularization

This is a large grassroots activity throughout the year, which focuses on the education of the socially disadvantaged. The Centre has carried out a tribal education project in Maharashtra and is also involved with the Atomic Energy Education Society in talent search among the underprivileged communities around its schools in different parts of the country. Several teacher orientation programmes are held round the year on the campus and at different sites in the country. As part of its science popularization effort, the Centre has developed two notable exhibitions on 'History of Science' and 'Gender and Science'. It has brought out many popular science books with an aim to inculcate scientific literacy among the masses of the country. Some of its members have association with National Book Trust (NBT), New Delhi, National Council of Educational Research and Training (NCERT) New Delhi, and National Institute of Science Communication and Information Resources (NISCAIR) New Delhi, as writers/translators and editors.

Olympiads

Since 1998, HBCSE has been at the forefront of the Science Olympiad movement in the country. It is the nodal Centre of the country for Olympiads in five subjects: mathematics, physics, chemistry, biology and astronomy. This is a massive programme involving several stages of selection and training culminating in student teams contesting in International Olympiads in these subjects. Special Olympiad laboratories in physics, chemistry and biology have been developed for the purpose. HBCSE hosted the 33rd International Chemistry Olympiad in July 2001 and the XI International Astronomy Olympiad in November 2006. It was also host to 19th International Biology Olympiad in Mumbai in July 2008, in which about 55 countries participated.

National Initiative on Undergraduate Science (NIUS)

This is a major new dimension to HBCSE's activities and a natural sequel to its Olympiad programme. It caters to talented undergraduates and mobilizes some of our best scientists and teachers from across the country for motivating and nurturing them for advanced studies and research in sciences. A substantial upgrading of the Centre's infrastructure is underway for the purpose. As part of NIUS, HBCSE is deeply involved in the academic activities of the new quality institutes being set up by the country for attracting bright students to science careers.

For details, kindly visit the website of the Centre (<http://www.hbcse.tifr.res.in>).

Second Peoples Education Congress

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- 96 Dr. N. P. Chaubey (Convener)
General Secretary
Iswar Saran Ashram Campus
Allahabad 211004
- 97 Dr. L. P. Pandey
Director of Education, U.P.
(Retired)
11-C, Mahui Sugharpur,
Saket Nagar, Rustampur, Dhala
Gorakhpur 273016 (U.P.)
- 98 Sri Ram Shankar
239, Dayal Residency,
Faizabad Road, Chinhat,
Lucknow 227105 (U. P.)

Second Peoples Education Congress

Core Group on Science Education in India

- | | |
|---|--|
| <p>1. Prof. P.K. Sarkar (Chairman)
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Peoples Council of Education
254, Block-B, Lake Tow,
Kolkata 700089</p> | <p>Tata Institute of Fundamental
Research, V. N. Purav Marg,
Mankhurd, Mumbai 400088</p> |
| <p>2. Prof. H.C. Pradhan (Co-Chairman)
Centre Director
Homi Bhabha Centre for Science
Education
Tata Institute of Fundamental Research
V. N. Purav Marg, Mankhurd,
Mumbai 400088</p> | <p>9. Prof. P. K. Yadav
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New Delhi 110067</p> |
| Members | |
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Kolkata 700009
(West Bengal)</p> | <p>10. Prof. K. Raghavendra Rao
Yamuna Bharati
VII Cross, Kalyan Nagar
Dharwad 580007 (Karnataka)</p> |
| <p>4. Dr. Saumya Panda
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Indian Institute of Marxist Theory and
Practice
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Basaveshwar Nagar Bus Stop
Hubli 580030 (Karnataka)</p> |
| <p>5. Dr. Prakash Burte
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Antrolkar Nagar-3,
Behind "Kinara" Hotel
Hotgi Road, Solapur 413003</p> | <p>12. Prof. B.M. Hegde
"Manjunath"
Pais Hills, Bejai,
Mangalore 575004</p> |
| <p>6. Dr. Anant R. Phadke
8, Amey Ashish,
Co-Operative Housing Society,
Near Kokan Express Hotel,
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Pune 411029 (Maharashtra)</p> | <p>13. Dr. Rahul Varman
Department of I.M.E.
Indian Institute of Technology Kanpur,
IIT Post Office, Kanpur 208016
(U.P.)</p> |
| <p>7. Prof. Arvind Kumar
Homi Bhabha Centre for Science
Education
Tata Institute of Fundamental Research
V. N. Purav Marg, Mankhurd,
Mumbai 400088 (Maharashtra)</p> | <p>14. Dr. B. Ekbal
Kuzhuvalil House,
Arpookara East,
Kottayam 686 008 (Kerala)</p> |
| <p>8. Dr. G. Nagarjuna
Homi Bhabha Centre for Science
Education</p> | <p>15. Sri Rohit Dhankar
Digantar
Udaipur</p> |
| | <p>16. Prof. V. Sasi Kumar
32, NCC Nagar
Peroorkada PO
Thiruvananthapuram 695005</p> |
| | <p>17. Prof. H. C. Pradhan
Homi Bhabha Centre for Science</p> |

- Education, Tata Institute of Fundamental Research, V. N. Purav Marg, Mankhurd, **Mumbai** 400088
18. Prof. Vijay A. Singh
Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research, V. N. Purav Marg, Mankhurd, **Mumbai** 400088
19. Dr. Chitra Natarajan
Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research, V. N. Purav Marg, Mankhurd, **Mumbai** 400088
20. Sri Anuj Sinha
Advisor & Head
National Council for Science and Technology Communication
Department of Science & Technology, Technology Bhavan, New Mehrauli Road
New Delhi 110016
21. Prof. Arun Kumar
18, Dakshinapuram
Jawaharlal Nehru University
New Delhi 110067
22. Prof. Girijesh Pant
Centre for West Asian and African Studies,
School of International Studies,
Jawaharlal Nehru University
New Delhi 110067
23. Prof. Kunal Ghosh
Head
Department of Aerospace Engineering
Indian Institute of Technology
Kanpur, IIT Post Office,
Kanpur 208016
(U. P.)
24. Dr. K. Subramaniam
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A-70/1, DDA SFS Flats, Saket,
New Delhi 110017
26. Sri Kamal Mahendroo
Ekavaya
E-7, HIG- 453 Colony
Arera Colony
Bhopal 462016 (M. P.)
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Kasegaon
Sangli District 415004
Maharashtra
28. Prof. Krishna Mohan Shrimali
155, Vaishali, Pitampura
Delhi 110088
29. Dr. Vinod Raina
General Secretary
Bharat Gyan Vigyan Parishad
YWA Hostel, No. 2, G- Block,
Saket, **New Delhi** 110017
30. Prof. Guru Prasad Kar
Physics And Applied Mathematics Unit,
Indian Statistical Institute
203 B. T. Road
Kolkata 700035 (W. B.)
31. Sri Sukla Sen
1603, Panorama Tower,
Prathamesh Complex,
Off Veera Desai Road,
Andheri West (W),
Mumbai 400053
32. Dr. M. C. Arunan
Sophia College for Women,
Mumbai (Maharashtra)
33. Prof. C.M. Bhandari
Indian Institute of Information Technology
Nehru Science Centre
University of Allahabad
Allahabad 211002
34. Prof. C. K. Raju
B-56, Tarang Apartments
19, I. P. Extension,
Delhi 110092
35. Dr. Dinesh Abrol
National Institute of Science
Technology Development Studies, K.

- S. Krishna Marg
Pusa Gate, **New Delhi** 110012
36. Prof. T. Karunakaran
Presently Project Consultant
Mahatma Gandhi Institute of Rural
Industrials & Maganwadi
Wardha
(Maharashtra)
 37. Prof. Harikesh Singh
National University of Educational
Planning and Administration
16-B, Sri Aurobindo Marg
New Delhi 110016
 38. Prof. Sudhanshu Bhushan
National University of Educational
Planning and Administration,
16-B, Sri Aurobindo Marg
New Delhi 110016
 39. Dr. Anurag Bhargava
Jan Swasthya Sahyog
1-4, Parijat Colony,
Nehru Nagar
Bilaspur 495001
(Chhattisgarh)
 40. Dr. R. Selvam
Reader in Zoology
Bishop Heber College
Trichy 620017 (Tamil Nadu)
 41. Sri K.R. Datye
Consulting Engineer, Member
Governing Board
Society for Peoples Participation in
Ecosystem Management
Ganesh Kutir, Prathna Samaj Road
Vileparle East,
Mumbai 400057
 42. Dr. Someshwar Bhowmik
DB 128, Salt Lake City,
Kolkata 700064 (W. B.)
 43. Sri Mukul K. Sinha
Managing Director
(Senior Member IEEE)
A 402, Ganinath Nikunj,
Plot No. 1, Sector 05,
New Delhi 110075
 44. Dr. Binod C. Agrawal
Director
TALEEM Research Foundation
 45. Sri Satya Sivaraman
Environment Engineer/Activist
C/o Delhi Platform,
482, Mandakini Enclave, Alakhnanda
New Delhi 110019
 46. Sri K. J. Joy
16 Lake Park
Someshwarwadi Road, Pashan
Pune 411008
 47. Dr. J. N. Pandey
13E/10B, Rajiv Nagar,
Shutur Khana, P.O. Teliarganj
Allahabad 211004
 48. Prof. Man Mohan Singh
Centre for Science Education
North Eastern Hill University
P.O. NEHU Campus,
Mawkynroh Umshing,
Shillong 793022
 49. Dr. K. K. Mishra (Co-Convener)
Homi Bhabha Centre for Science
Education, Tata Institute of
Fundamental Research,
V. N. Purav Marg,
Mankhurd, **Mumbai** 400088
 50. Dr. N. P. Chaubey (Convener)
General Secretary
Peoples Council of Education,
5, Iswar Saran Ashram Campus
Allahabad 211004 (U. P.)
 51. Prof. Jayashree Ramadas
Dean
Homi Bhabha Centre for Science
Education, Tata Institute of
Fundamental Research,
V. N. Purav Marg,
Mankhurd, **Mumbai** 400088
 52. Prof. S. C. Agarkar
Homi Bhabha Centre for Science
Education, Tata Institute of
Fundamental Research,
V. N. Purav Marg,
Mankhurd, **Mumbai** 400088

SECOND PEOPLES EDUCATION CONGRESS

Local Organizing Committee

1. Prof. H. C. Pradhan (Chairman)
Centre Director
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400 088
2. Prof. Vijay A. Singh (Vice Chairman)
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400 088
3. Prof. Jayashree Ramadas (Vice Chairperson)
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400 088
4. Prof. S. C. Agarkar
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400 088
5. Prof. Chitra Natarajan
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400 088
6. Prof. Sugra Chunawala
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400 088
7. Dr. G. Nagarjuna
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400 088
8. Dr. K. K. Mishra
Local Secretary
Second Peoples Education Congress
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400 088
9. Mrs. M. D. Gaitonde
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400 088
10. Ms. Meena Kharatmal
Convener, Exhibition
Homi Bhabha Centre for Science Education,
TIFR, V.N. Purav Marg, Mankhurd, **Mumbai** 400088

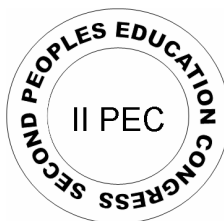
PEOPLES COUNCIL OF EDUCATION

EXECUTIVE COUNCIL 2006-2009

Position	Name and Address	Councillor	
President:	Dr. Pijush Kant Sarkar 254, Block B, Lake Town, Kolkata 700089 (W.B.) E-mail: bodhi_fha@dataone.in M: 09433263277	Councillor	Prof. Meher H. Engineer Bose Institute, 93/I, APC Road, Kolkata 700009 E-mail: mengineer2003@yahoo.com Tel: 033-22286089
Vice-President:	Prof. V. D. Misra 39, Stanley Road, Allahabad 211002 Tel: 0532-2640578	Councillor	Sri Ram Shankar 239, Dayal Residency, Faizabad Road, Chinhat, Lucknow 227105 (U. P.) Tel: 0522-3258019 M: 09335067095
General Secretary:	Dr. N. P. Chaubey Iswar Saran Ashram Campus Allahabad 211004 E-mail: issaald@gmail.com Tel: 0532-2544170 (R) 0532-2544245 (O)	Councillor	Dr. Karri Suryanarayana Reddy, Knowledge Society, Door No. 4-47-7, Lawsons Bay, Colony Vishakhapatnam 530017 (A.P.) E-mail: ksreddy@hotmail.com M: 09394265432
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Councillor	Dr. Mukul Kumar Sinha A 402, Ganinath Nikunj, Plot No. 1, Sector 5, Dwarka, New Delhi 110075 E-mail: mukulksinha@gmail.com Tel: 0120-434885 (O) 011-65423146 (R)	Councillor	Dr. Mahesh Chand Chattopadhyaya 192-B, Allenganj, Allahabad 211002 M: 09415637904
Councillor	Prof. Mans Mukul Das 37, Chatham Lines Allahabad 211002 Tel: 0532-2644118	Special Invitee	Prof. Girijesh Pant Centre for West Asian and African Studies, School of International Studies Jawaharlal Nehru University New Delhi 110067 E-mail: gpant49@hotmail.com Tel: 011-26742275 M: 09810236871
Councillor	Prof. Arvind Kumar Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research V. N. Purav Road, Mankhurd Mumbai 400088 E-mail: arvindk@hbcse.tifr.res.in Tel: 022-25562132 (O) 022- 25576248 (R) M: 09819381255		
Councillor	Dr. Saumya Panda Consultant Dermatologist, Ashok Swapna, 122/4, Dr. Jiban Ratan Dhar Road, Kolkata 700028 (West Bengal) E-mail: saumyapan@gmail.com M: 09831163975	Special Invitee	Sri S. P. Shukla, IAS President Indian Academy of Social Sciences 3260, Sector D, Vasant Kunj, New Delhi 110070 E-mail: manjuspshukla@gmail.com Tel: 011-26897089 M: 09415874691
Councillor	Prof. S. K. Agrawal A-6, Saff Quartes, Motilal Nehru Engineer College Teliargang, Allahabad 211004 Tel: 0532-2540227		

Special Invitee Prof. H. C. Pradhan
Centre Director
Homi Bhabha Centre for
Science Education, TIFR
V. N. Purav Marg, Mankhurd
Mumbai-400 088
e-mail: hcp@hbcse.tifr.res.in

Special Invitee Dr. K. K. Mishra
Homi Bhabha Centre for
Science Education, TIFR
V. N. Purav Marg, Mankhurd
Mumbai-400 088
e-mail: kkm@hbcse.tifr.res.in



SECOND PEOPLES EDUCATION CONGRESS

(October 05-08, 2009, Homi Bhabha Centre for Science Education, TIFR, Mumbai)

PEOPLES COUNCIL OF EDUCATION

For Secretariat use only

Regd. No:

Abstract No.:

CD:

Date Received:

Registration:

ABSTRACT FORM

Please mail it to Dr. N. P. Chaubey, General Secretary, Peoples Council of Education, 5, Iswar Saran Ashram Campus, Allahabad 211 004, INDIA. E-mail: issaald@gmail.com; Fax: 0532-2544170 before June 15, 2008.

Guidelines for submission

1. Only one abstract to be submitted by each registrant
2. The entire abstract including title, author(s) Institution(s) country and acknowledgement must fit within the blue rectangle.
3. Type the title in upper case letters, the names of the authors and their addresses in upper and lower case and underline the name of the presenting author.
4. Abstracts will be printed by photo-offset process after reduction.
5. When using IBM or Apple Macintosh word-processing facilities, use a CG times 10 pitch font. When using a typewriter, use Gothic 12 pitch font.
6. One original abstract and 3 copies to be mailed with cardboard packing.
7. Floppy containing text of paper if possible may be sent:

NAME AND ADDRESS OF THE AUTHOR:

Name: _____

Mailing address: _____

E-mail: _____ Fax: _____

Tel: (R): _____ (O): _____

enary/Panel/Special Lecture/Exhibition _____

FOR ABSTRACT
(Within 500 Words)

**DECLARATION TO BE MAILED WITH PAPER**

MEMBERSHIP FORM

जन शिक्षा परिषद्
PEOPLES COUNCIL OF EDUCATION

Pass-port
size photo

The undersigned is interested in becoming a member of the Peoples Council of Education (PCE) willing to and abide by its constitution and rules and regulations.

The category of membership for which the fee is enclosed is indicated by the tick mark below:

Membership Category and Fee Amount

	CATEGORY	FEES (Rs.)
1.	Founder Life Member*	2,000.00 (fixed)
2.	Life Member	1,500.00 (fixed)
3.	Patron	50,000.00 (fixed)
4.	Ordinary Member	150.00 (fixed)
5.	Permanent Institutional Member	10,000.00 (fixed)
6.	Annual Institutional Member	1,000.00 (p.a.)
7.	Donor Life Member	50,000.00 (fixed)
8.	Donor Annual Member	5,000.00 (p.a.)

* Open till March 31, 2009

Note: Admission fee of Rs. 50.00 is to be added by new members and by those whose Membership has been discontinued on account of non-payment of membership dues. Outstation cheque is not admissible.

Kindly find enclosed a payee account BANK DRAFT/CHEQUE payable at Allahabad drawn in favour of the Peoples Council of Education, Allahabad.

Bank Draft Number: _____ Bank draft Date: _____

Bank drawn on: _____ Total Amount in Figures: _____

Total Amount in words: _____

The undersigned's full addresses and contact numbers and other professional data are as given below:

I have attached the details of my contributions on a separate sheet of paper along with reprints/reports of important publications.

An extra passport size photograph may be attached with the application.

(Please send this form with all the relevant information to the General Secretary, Peoples Council of Education under registered cover.)

P.T.O.

<name> _____

<designation > _____

<Instt. abbreviation> _____

<address line 1> _____

<address line 2> _____

<address line 3> _____

_____ <place> _____ <pin code> _____ <state> _____

Phone (o): _____ Phone (r) _____

fax: _____ e-mail _____

telex: _____ telegram: _____

date of birth: _____ (dd/mm/yyyy) _____

place of work: _____

_____ <institute name> _____

_____ <place> _____ <pin > _____ <state> _____

Occupation: _____

Academic Qualification _____

Field of Specialization: _____

(Please gives the details on a separate sheet)

DECLARATION

I pledge and promise to work for the enrichment of the Peoples Council of Education unconditionally and devotedly. I may be disqualified if found acting against the interest of the Peoples Council of Education.

(full name in CAPITALS) signature and date

FOR OFFICE USE ONLY

Received the Membership Fee for the Peoples Council of Education as per the details above and issued the receipt to

<name> _____

Receipt Number: _____ Receipt Date: _____

Total Amount in Figures: _____

Total Amount in words: _____

Entry in the register on page _____ of serial number

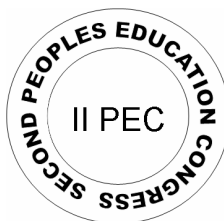
Admitted as Member yes no (ref. no and date: _____)

signed _____ signed _____ signed _____

General Secretary

Treasurer

Accountant



SECOND PEOPLES EDUCATION CONGRESS

(October 5-8, 2009, Homi Bhabha Centre for Science Education, TIFR, Mumbai)

PEOPLES COUNCIL OF EDUCATION

REGISTRATION FORM

REGISTRATION FORM TO BE SUBMITTED BEFORE AUGUST 31, 2009

(Each participant should submit a separate form)

The undersigned is interested in registering for the above Congress.

The category of registration for which the fee is enclosed is indicated by the tick mark below (✓) :

REGISTRATION CATEGORY

Category	Upto August 31, 2009	From September 01, 2009
Member-Delegate	Rs. 1000.00	Rs. 1200.00
Non-Member Delegate	Rs. 1500.00	Rs. 2000.00
Institutional Delegate:		
(c) Member	Rs. 1200.00	Rs. 1500.00
(d) Non-Member	Rs. 2000.00	Rs. 2500.00
Student Delegate	Rs. 700.00	Rs. 900.00
Foreign Delegates	Rs. 2500.00	Rs. 3000.00

Check one below:

I am a Member of the Peoples Council of Education, my Membership Card Number is: _____

I wish to be a Member of the Peoples Council of Education, the Application Reference is: _____

I am a Postgraduate research student and have attached the "bonafide certificate" from the registrar and/or a competent authority from my institution. _____

I am a field activist in the field of science education/science communication/people's welfare.

Kindly find enclosed an account payee BANK DRAFT payable at Allahabad drawn in favour of the Peoples Council of Education, Allahabad.

Bank Draft Number: _____ Bank Draft Date: _____

Bank Drawn on: _____ Total Amount in Figures: _____

Total amount in words _____

P.T.O.

The undersigned's full addresses and contact numbers are as given below:

Name _____

Designation _____

Inst. abbreviation _____

Address line 1 _____

Address line 2 _____

Address line 3 _____

Place

pin code

state

Phone (O): _____

Phone (R): _____

Mobile: _____

Fax: _____

E-mail: _____

full name in CAPITALS

Signature & date

Institution & place

REGISTERED AD addressed to:

Dr. N. P. Chaubey

General Secretary

Peoples Council of Education

Iswar Saran Ashram Campus

Allahabad 211004

Tel: (R) 0532-2544170 (O) 0532-2544245

Fax: 0532-2544170

E-mail: issaald@gmail.com

Website: <http://www.peoplescouncilofeducation.info>; <http://www.pecindia.info>

FOR OFFICE USE ONLY

Received the Registration Fee for the Second Peoples Education Congress as per the details above and issued the receipt.

Name: _____

Receipt Number: _____ Receipt Date: _____

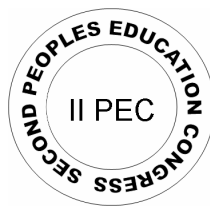
Total Amount in Figures: _____

Total Amount in words: _____

Entry in the register on page _____ of serial number _____

Treasurer

Accountant



SECOND PEOPLES EDUCATION CONGRESS

(October 05-08, 2009, Homi Bhabha Centre for Science Education, TIFR, Mumbai)

PEOPLES COUNCIL OF EDUCATION

XIV. ACCOMMODATION AND FOOD FORM

ACCOMMODATION & FOOD FORM TO BE RECEIVED BEFORE SEPTEMBER 15, 2009 BY
THE LOCAL SECRETARY

Please tick one below (✓):

The undersigned is interested in accommodation arranged by the Host to the above Congress.

The undersigned will make his/her own accommodation arrangements

Registered delegates can stay in hotels at the place of the venue. Arrangements for hotel accommodation and payment will have to be made by the delegates directly. Arrangement for Transport to and from the venue of the Congress will also have to be made by the delegates directly. The Host and the Council are not responsible for the dealings with any payment to the Hotel.

My name and address is as given below:

<Name> _____
<Designation> _____
<Inst. abbreviation> _____
<Address line 1> _____
<Address line 2> _____
<Address line 3> _____

	<Place>	<pin code>	<state>
Phone (O):	_____	Phone (R):	_____
Fax:	_____	E-mail:	_____
Telex:	_____	Telegram:	_____
Please tick relevant box: gender: m f		food: veg. non-veg.	

I am unaccompanied

Full name in CAPITALS

I am accompanied as below

age	gender	food
m	f	veg. non-veg.
m	f	veg. non-veg.
m	f	veg. non-veg.

Number of accompanying persons: _____

Children below 5 shall not be charged for food.

Addressed to:

Dr. K.K. Mishra
Local Secretary
Second Peoples Education Congress
Homi Bhabha Centre for Science Education,
Tata Institute of Fundamental Research
V. N. Purav Marg, Mankhurd, Mumbai 400088
Tel: (O) 022-25555242, 25567711, M: 0-9867210755
E-mail: pec2@hbcse.ifr.res.in
Website: www.hbcse.tifr.res.in

