



14th

NCB INTERNATIONAL SEMINAR ON CEMENT AND BUILDING MATERIALS

01-04 December 2015, New Delhi, India



NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS, INDIA

www.ncbindia.com



Introduction

National Council for Cement and Building Materials (NCB), the apex body in India for research, technology development and transfer, education and industrial services for cement, allied building materials and construction industries, is organising this International Seminar on Cement and Building Materials as a follow-up of the thirteen NCB International Seminars organised earlier, each with substantial international participation. The NCB International Seminars have emerged as singular biennial events in this part of the globe which the cement and construction industries the world over look forward to for participation. The sustained interest of participants over the years is indication of the benefits reaped by them and has enabled it reach the milestone of its 14th edition. While reviewing the developments which have taken place during the intervening period since the last event in the series, specially in the areas of alternate fuels and raw materials, global warming, CDM, ready mix concrete, nano-technology etc., the 14th NCB International Seminar through the Technical Exhibition to be held as a part of the event will give additional exposure to the latest in available technologies and services for efficient operation of cement plants, making of concrete and construction activities. The event will serve as an excellent meeting point for the suppliers and the clients, specially from developing countries for mutual benefit.

Like the previous ones in the series, the 14th NCB International Seminar will also be sponsored by a number of leading international and national cement and cement machinery manufacturing organizations, construction companies and government bodies.

Dates & Venue

DATES : 01-04 December 2015

**VENUE : Manekshaw Centre, Parade Road,
Delhi Cantt., New Delhi - 110 010**

Manekshaw Centre, in the outskirts of Delhi Cantonment, is the finest and popular venue for National / International Seminars and Exhibitions. It provides serene environment for technical deliberations and generous spreads for exhibition. It is located at about 1 Km from Dhaura Kuan Metro station towards New Delhi International Airport and opposite to Subroto Park.

Highlights of 13th NCB International Seminar (19-22 November 2013)

- 900 Delegates including 104 from 22 overseas countries.
- 115 Papers presented in 20 Technical Sessions
- 119 Stalls by 80 Exhibitors in the Technical Exhibition organized concurrently.

Registration

Interested participants should complete and return the attached Registration Form (also downloadable from NCB website: www.ncbindia.com) as early as possible. Photocopied formats can also be used.

Registration Fee per Participant and Payment Schedule						
Category / Sub Category	Date of Payment					
	Upto 31 July 2015		Upto 15 October 2015		From 16 October 2015	
	National (₹)	Overseas (US\$)	National (₹)	Overseas (US\$)	National (₹)	Overseas (US\$)
Delegates						
• General	16,000	1,350	18,000	1,500	20,000	1,650
• Authors making presentation (only one per accepted paper)	14,000	1,250	14,000	1,250	16,000	1,400
• Nominees of Academic Institutions, Govt. Departments (not PSUs)	14,000	1,250	14,000	1,250	16,000	1,400
• Students*	8,000	700	8,000	700	9,000	800
• Accompanying Persons (Spouse only)	9,000	700	9,000	700	10,000	800
Team Discount	One free registration (same category) for every five paid registrations.					
Important	<p>As required by the norms of Venue Management:</p> <ul style="list-style-type: none"> All Overseas Delegates/Exhibitors/Accompanying Persons must indicate their willingness to participate latest by 10 September 2015, (Name, Designation, Nationality, copy of Passport, Contact information, E-mail ID required). All Indian nationals – Delegates/Exhibitors/Accompanying Persons must indicate their willingness to participate latest by 31 October 2015, (Name, Designation, Contact information, E-mail ID required). <p>However, to avail the incentives, the above payment schedule should be adhered to.</p>					
* with proper ID proof from University/Institute recognized/accredited by Government						

The Registration Fee for the participating Delegates covers: Seminar kit and Seminar Proceedings (print volume of Extended Abstracts and CD of papers), Admission to the Technical Exhibition, Morning and Afternoon Coffee / Tea and Lunch on all Seminar days, Invitation to Cultural Programme & Dinner, Informal Get-togethers.

The Registration Fee for the Accompanying Persons covers: Participation in Inaugural and Concluding Sessions, Admission to the Technical Exhibition, Morning and Afternoon Coffee / Tea and Lunch on all Seminar days, Invitation to Cultural Programme & Dinner, Informal Get-togethers, Sightseeing and shopping in Delhi, Ladies Programmes.



Cancellation

On cancellation of registration, refund of registration fee will be as follows :

- Upto 15 October 2015 20% deduction
- After 15 October 2015 No refund

Cancellation charges may be waived at the discretion of the Secretariat, if the originally registered delegate is in a position to arrange for an alternate in his place.

Participation

Seminar content is designed to contain state-of-the-art technologies, reviews and case studies on modernization & upgradation, retrofitting / re-engineering and plant rejuvenation along with environmental and sustainability concerns. Seminar shall also cover advances in cement & concrete research and evolving issues for futuristic technology.

The Seminar, therefore, provides an ideal opportunity to :

- cement and concrete professionals from policy makers / top management personnel to senior and middle level executives as well as entry level engineers / chemists associated with manufacture of cement, concrete and ready mixed concrete, lime and allied building materials
- machinery manufacturers, designers and consultants
- engineers, technologists, scientists, academicians, research scholars, students and economists
- users of cement and building materials and construction agencies

to deliberate, share and assimilate the ideas of the world's leading experts on the latest national and international trends and developments.

Papers and Time Schedule

Papers covering any of the theme areas are invited from interested persons. The following time schedule will be followed:

	Submission	Acceptance by Secretariat
Abstract (<i>about 300 words, in duplicate</i>)	15 April 2015	31 May 2015
Extended Abstract (<i>about 1,000 words, maximum 3 pages</i>) and Paper (<i>Camera-ready Manuscript</i>)	31 July 2015	31 August 2015

Final manuscripts should be sent on CD / DVD, done in MS-Word and accompanied with two hard copies. All abstracts as also the final papers received will be peer reviewed. The Extended Abstracts (of about 1,000 words limited to 3 pages including figures, tables etc., if any) of accepted papers from registered delegates only will be printed and provided in



Seminar Kit, along with CD / DVD of full manuscripts of accepted papers. **The Extended Abstracts and full manuscripts should be prepared as per prescribed guidelines, which will be communicated to the authors of accepted abstracts.**

Only a limited number of papers from Registered Delegates will be selected for presentation. The authors of the papers will be informed accordingly.

Technical Deliberations

The technical deliberations at the Seminar will cover the whole spectrum, from geological exploration / extraction of limestone to manufacture and utilisation of cement and building materials with focus on latest innovations in technology. The areas needing special attention in the present context have been identified as follows :

☛ Raw Material Resources Management

- Cement raw materials – challenges ahead
- Advances in limestone deposit exploration, evaluation and exploitation
- State-of-the-art mining equipment and practices
- Maintenance of heavy earth moving and mining equipment
- Production planning in mines for optimal utilization of resources
- Upgrading of limestone and mines reject for cement manufacture
- Mining waste management & utilization
- Resource optimization and sensitivity analysis
- Mining, habitat and sustainable development
- Safety & health practices in limestone mining

☛ Energy Conservation Systems

- Energy efficient technologies and operations
- Energy audit and management
- Advances in combustion systems
- New and renewable source of energy
- Waste heat recovery and co-generation of power
- Role of regulatory provisions in energy conservation
- Energy efficient buildings and structures

☛ Alternate / Waste Fuels and Raw Materials

- Use of alternate fuels including MSW, WDF, bio-fuels etc
- Use of low grade fuels
- Co-processing of hazardous wastes in cement kiln
- Alternate raw materials including industrial wastes / by-products

☛ Cement Plant Machinery and Project Engineering

- Optimum plant design
- Advances in cement plant machinery
- Packaging, handling and transportation of cement including bulk systems

- Technology upgradation / modernization / debottlenecking / re-engineering

- Financial restructuring and plant rejuvenation
- Ultra high capacity cement kiln and mill systems

☛ Productivity Enhancement and Process Optimization

- Total productivity enhancement and cost reduction techniques
- Optimization of plant operations and trouble shooting
- Refractory engineering practices and recent advances
- Condition monitoring techniques
- Technical audit, plant maintenance and benchmarking
- Advances in instrumentation and process automation
- Supply chain management

☛ Portland, Blended and Special Cements

- Advances in cement chemistry
- Optimization of raw mix design
- Use of mineralisers, fluxes and activators
- Low energy and special cements
- Hydration studies of cementitious systems
- Mineral admixtures
- Binary and ternary blended cements
- Green cement / Eco-cement

☛ Performance and Durability of Concrete

- Concrete of low permeability / low electrical resistivity
- Use of stainless steel and composite reinforcement
- High performance concrete
- Ultra high strength concrete
- Improvement of performance by use of fibre reinforcement in concrete
- Durability of concrete in aggressive environment
- Improvement in performance by use of coatings

- Chemical admixtures for high performance concrete
 - Additions for Enhanced Durability of Concrete – Blast furnace slag, Fly ash, Silica fume, Metakaolin and other Supplementary Cementitious Materials (SCM) or Pozzolanas
- ☞ **Durability Design of Concrete Structures & Testing for Durability**
- Planning for durability
 - Service life design (prediction) / residual life assessment
 - Testing for durability
- ☞ **Concrete Deterioration Mechanisms**
- Chloride ingress, chloride initiation and propagation of corrosion of steel rebars
 - Carbonation
 - Alkali aggregate reactions
 - Sulfate attack (formation of Ettringite, Thaumasite, Gypsum etc.)
 - Delayed Ettringite formation
 - Freeze / thaw attack
 - Ice abrasion
 - Effect of cracks
- ☞ **Distress Investigation, Repair / Retrofitting of Concrete Structures**
- Non destructive testing of concrete
 - Repair systems
 - Applications of membrane & coatings
 - Chloride removal techniques
 - Re-alkalization techniques
 - Cathodic protection of steel reinforcement
 - Use of fibre wrapping for retrofitting
- ☞ **Construction Practices and use of Alternate Aggregates**
- Modernization of construction practices with respect to speed, economy & quality
 - Ready mixed concrete
 - Self-compacting concrete
 - Quality assurance & technical audits of concrete construction.
 - Use of C&D waste, slags and bottom ash as aggregate
 - Other waste based, sintered and manufactured aggregates
- ☞ **Other Building Materials and Binders**
- Lime, fly ash and clay based materials
 - Waste based cementitious binders / materials
- ☞ **Marketing and Consumer Protection**
- Marketing research and analysis
 - Innovative marketing practices
 - National and international standards
 - HRD needs and support systems for cement and construction industries
- New Training tools
 - Skill upgradation
- ☞ **Environmental Management and Sustainable Development**
- Environmental improvement through modern technologies in cement and construction industries
 - Sustainable development initiatives
 - Role of regulatory provisions for environment improvement and sustainable development
 - Climate change implications and initiatives by cement and construction industries
 - Life cycle assessment in cement manufacture
 - Life cycle assessment of constructions and environmental accounting
 - Carbon accounting and clean development mechanism (CDM)
 - EIA/EMP studies in cement and construction sectors
 - Rehabilitation of limestone mines
 - Voluntary environmental initiatives
- ☞ **Total Quality Management**
- Quality management systems
 - Quality control and quality assurance in manufacture and utilization of cement
 - Advances in laboratory automation
 - Advances in TQM practices
 - Development of certified reference materials (CRMs)
 - Statistical quality control / Statistical process control
 - Advances in testing and calibration methods
 - Proficiency testing
 - Voluntary TQM initiatives
 - Benchmarking of quality parameters
- ☞ **Emerging Trends**
- Geo-polymer binders
 - Composite and portland – limestone cements
 - Nano-technology application in cement and concrete
 - Energy efficient materials
 - Expanding the horizon of cement use
 - Use of polymers and resins with cementitious systems
 - Technology trends and forecasts
 - Green technologies and practices for sustainable growth
 - CO₂ capture initiatives
 - CSR initiatives

Discussions covering technical papers on the above areas will be classified and spread over various technical sessions. Authors of the papers selected for presentation will be requested to briefly present the salient features of their papers. These will be followed by discussion from the floor.

International Experiences

Exchange of views with delegates, experiences from abroad, specially covering developments which are relevant to India and frontiers of achievements which could be advantageously utilised, will specially enrich the Seminar. The highlights of international experiences will be the Invited Lectures by renowned international experts. Delegates will get an opportunity to have interaction with these and other experts participating in the Seminar.

Technical Exhibition

A Technical Exhibition bearing on the themes of the Seminar will be an added opportunity for the delegates to have an exposure of the state-of-the-art developments around the world. Exhibits would be components, scale models, literature & books, charts, photographs etc.

Category of Exhibitor	Service Charges per Sq m		Free delegates for each stall		
	Date of Payment		Size (m x m)		Category of delegate
	Upto 31 July 2015	01 August 2015 onwards	(3x3)	(3x2)	
National	Rs. 17,000/-*	Rs. 18,000/-*	02	01	Indian Nationals only.
Overseas	US \$ 1,400	US \$ 1,500	02	01	Overseas or Indian Nationals

* Service tax and surcharge thereon shall be additionally payable (12.36% at present).

- Stalls shall be booked on first pay, first served basis.
- No refund on Cancellation.
- Details of layout, facilities and terms and conditions will be sent to interested exhibitors on request.

Special Publication

A Special Publication containing articles on various relevant areas, technological status and future prospects of the Indian cement industry by eminent experts will be released at the Inaugural Session. Copies of the publication will be provided to all participants. The publication is open for limited number of advertisements only. Advertisement tariff is as follows:

Advertisement Position	Print Area (mm)	National (₹)	Overseas (US\$)
Back Cover	180 x 240	1,00,000	3,000
Inside Covers and Pages facing the Inside Covers	180 x 240	75,000	2,500
Full Page	180 x 240	40,000	1,500
Half Page (Horizontal)	180 x 115	25,000	1,000
Half Page (Vertical)	85 x 240	25,000	1,000

An Early Bird Discount of 10% of the charges is available, if the due payment is made to reach NCB by 31 July 2015.



All advertisements will be in colour. Advertisement material (Hard & soft Copy) may be provided in Corel Draw, Illustrator or Photoshop in open format together with EPS or PDF, not less than 300 dpi. Rates mentioned above are net and do not include agency commission.

The Demand Draft drawn in favour of National Council for Cement and Building Materials and payable at New Delhi / Faridabad along with the advertisement material should reach latest by 30th September 2015.

Seminar Language

The official language of the Seminar is English. All papers therefore should be drafted in English only. All deliberations during the Seminar will also be conducted in English language.

Awards

Authors of ten papers which are adjudged by the panel of judges, appointed by NCB, as the best contributions to the Seminar from the point of view of serving the needs and closest to implementation in cement, concrete and building materials industries, will be given awards and certificates at the Concluding Session.

Sponsorship Schemes

Many organizations have shown interest for being associated with the Seminar as Sponsors. The Secretariat has drawn up very attractive schemes with host of complimentary benefits to the Sponsors under different categories. Details of the schemes are available on request.

The interested organizations can also associate themselves with the event for gaining additional publicity as under :

- Sponsoring lunch, dinner and high tea with publicity through special signages at the venue, announcement through slide in the seminar hall and invitation card for the same in the delegate kit
- Sponsoring the delegate kit bag or gift items with logos of their company / organization and the Seminar
- Distribution of literature / catalogues in the Seminar hall or delegate kit bag, on payment

Other proposals for Sponsorship are also welcome.



14th NCB International Seminar on Cement and Building Materials

01-04 December 2015, New Delhi, India

REGISTRATION FORM

Name and address of the nominating organisation : _____

City : _____ PIN/Zip : _____ Country : _____

Phone : _____ Fax : _____

E-mail : _____

Delegate Name : _____ Designation : _____

E-mail : _____ Mobile : _____

Nationality: _____ Passport No.*: _____ Valid upto*: _____

Details of accompanying person (Spouse only)

Name : _____

Nationality: _____ Passport No.*: _____ Valid upto*: _____

** for Foreign Nationals*

Particulars of fee remittance : Demand Draft to be drawn in favour of **National Council for Cement and Building Materials**, payable at Faridabad / New Delhi.

Demand Draft No. or RTGS / NEFT Transaction No.	Date	Amount: ₹/ US\$	Drawn on (name of bank)

Domestic Bank transfer / RTGS / NEFT can be made to Savings Bank Account No. **06191450000163** of National Council for Cement and Building Materials, HDFC Bank Limited, SCF No. 222, Sector-9, Faridabad 121 006, Haryana State, India. IFSC Code No. **HDFC0000619**.

Overseas Remitters may transfer funds to Savings Bank Account No. **06191450000163** of National Council for Cement and Building Materials with HDFC Bank Limited, SCF No.222, Sector-9, Faridabad 121 006, Haryana State, India. SWIFT CODE No. **HDFCINBB**.

PAN Number of National Council for Cement and Building Materials is **AAATN2477N**.

I understand and agree to the 'Cancellation Policy' & 'Terms of Participation' as explained in Seminar Bulletin-1.

Signature of the Nominating Authority / Delegate with seal

Wherever necessary, use additional sheet to provide the complete detail.

(Photocopies of the Form are also acceptable, can also be downloaded from NCB Website : www.ncbindia.com)

BY AIRMAIL

The Organising Secretary
14th NCB International Seminar
National Council for Cement and Building Materials
34 Km Stone, Delhi-Mathura Road (NH2)
Ballabgarh – 121 004, Haryana
India

Tours and Visits

Technical visits to cement and building material manufacturing plants, construction sites and industrial complexes as well as sight-seeing tours to places of historical and cultural interest would be arranged after the conclusion of the Seminar, details of which will be sent to those who register for the seminar. Post-seminar tours include attractive proposals to visit places of historical and cultural interest like *Agra, Goa, Jaipur, Kathmandu* and *Khajuraho*, if sufficient response is received from the participants.

For the accompanying ladies, special programmes like local *Shopping, Yoga, Mehndi, Rangoli* and *Herbal therapy* demonstration, visit to Fashion Shows and Boutiques will be arranged.

Information

All communications may be addressed to:
The Organising Secretary
14th NCB International Seminar
National Council for Cement and Building Materials
34 Km Stone, Delhi - Mathura Road (NH2)
Ballabgarh-121 004, Haryana, INDIA



SPECIFIC CONTACTS

	Email ID	Phone	Fax
Seminar	seminar@ncbindia.com ; seminar2@ncbindia.com	+91-129-4192247, 279, 222, 2242051 +91-9971870795, 9711407555	+91-129-2242100, 2246175 Common to all
Exhibition	exhibition.ncb@gmail.com; exhibition@ncbindia.com	+91-129-4192242; +91-9810389399 +91-129-4192241; +91-9958998056	
Sponsorship	sponsorship.ncb@gmail.com; sponsorship@ncbindia.com	+91-129-4192282; +91-9891989540	
Advertisement	ncbseminar@gmail.com cceb@ncbindia.com;	+91-129-4192288 ; +91-9891415735	
Visit our Website : www.ncbindia.com			

Terms of Participation

NCB is not liable for any acts of a Third Party in respect of the Seminar & Exhibition, and is not liable for any injury, loss, inconvenience, or damage to person or property in connection with the holding of the Seminar & Exhibition. In addition and without limitation, NCB is not responsible for any injury, loss, inconvenience or damage, to person or property in connection with the holding of the Seminar & Exhibition, whether resulting from, but not limited to acts of God or Force Majeure. NCB reserves the right to change the itinerary for the Seminar & Exhibition, or its features at any time and for any reason, with or without notice, and NCB shall not be liable for loss of any kind as a result of any such change. The Courts at New Delhi, shall have exclusive jurisdiction in respect of all matters concerning or related to the Seminar & Exhibition. All such disputes shall be referred to a Sole Arbitrator to be exclusively appointed by NCB.

