“WIDESPREAD ACTIVITIES
OF
INDIA CHAPTER”
2017 - 2018
Many General Activities are being performed in India Chapter of ACI…
SURENDRA KESHAV MANJREKAR RECEIVES HONORARY MEMBERSHIP AT SALT LAKE CITY, UTAH, USA, MARCH 2018
ICACI’S INTERNSHIP PROGRAMME A BIG HIT WITH STUDENTS
KONGU ENGINEERING COLLEGE TWO DAY NATIONAL CONFERENCE ON “IMPORTANCE OF SUSTAINABILITY IN CONCRETE STRUCTURES ON 6-7 AUGUST 2018”
STUDENT CHAPTER MEMBERS OF ICACI UNDERTAKE SUCCESSFUL ON-SITE STUDY TOUR, AT SANJAY GHODAWAT GROUP OF INSTITUTIONS (SGI), KOLHAPUR
Dr. V. A. Raikar, Vice Chancellor of SGI, felicitates Chief Guest, Dr. Surendra Manjrekar, Honorary Member, ACI.

Chief Guest, Dr. Surendra Manjrekar, Honorary Member, ACI, speaks during the inaugural session of Concrete Fest 2K18.

40-plus students presented technical papers which were judged by Prof. Abhay Joshi of Dr. D.Y. Patil College of Engineering, Kolhapur. Ms. Pramodini Patil from Walchand College of Engineering, Sangli, won the first prize.

Er. Mike Evans, Arup International, London spoke on the evaluation and repair of Nuclear Power Plants in North Wales during the 2nd and 3rd session on Day 1.

CONCRETE FEST 2K18 – A ROARING SUCCESS
However this time we will be focusing on the “3rd R N Raikar Memorial International Conference & Gettu-Kodur International Symposium”
“INTERNATIONAL CONFERENCE OF THE DECADE IN ASIAN CONTINENT”
14th & 15th DECEMBER 2018.
3rd R N RAIKAR MEMORIAL INTERNATIONAL CONFERENCE & ‘GETTU-KODUR INTERNATIONAL SYMPOSIUM’ ON 14th & 15th December, 2018 IN MUMBAI.

TOPIC : ADVANCES IN SCIENCE & TECHNOLOGY OF CONCRETE
The Mission –

a. To introduce the participants to the cutting edge technologies in the field of concrete and concrete construction.

b. To facilitate technology transfer.
R. N. Raikar - International Conferences

1st – 2013
‘Suru Shah’ International Symposium

2nd – 2015
‘Banthia-Basheer’ International Symposium

3rd – 2018
‘Gettu - Kodur’ International Symposium
Almost 550 delegates participated - A resounding success and technical extravaganza par excellence
ACI President Dr. Anne Ellis presents a Perspective on Tall Buildings from around the world.
3rd R. N. Raikar Intl. Conf. - 2018

Important Dates
3rd R N Raikar Memorial International Conference
14 - 15 December 2018, Mumbai

The St. Regis Mumbai

VENUER

ST REGIS

SAVE THE DATE
This conference is felicitating:

Prof. Ravindra Gettu
IIT Madras
President – RILEM
Ex- Director – Universitat Politecnica de Catalunya, Barcelona, Spain

Prof. Venkatesh Kodur
Distinguished Professor
Michigan State University
United States
Invitation to Participate

3rd R N Raikar Memorial International Conference

14 - 15 December 2018, Mumbai

Radhika Markan
President

Dr. S. K. Manjrekar
Chair

Mohan Jacob
Co-Chair

Umesh Magar
Co-Chair
MENTORS

Conference Mentors
3rd R N Raikar Memorial International Conference

14 - 15 December 2018, Mumbai

Prof. Surendra P. Shah
Chicago, USA

Prof. V. M. Malhotra
Ottawa, Canada

Prof. Nemy Banthia
Vancouver, Canada

Prof. P.A.M Basheer
Leeds, United Kingdom
Scientific Committee

- Mohan Jacob Chair
- Dr. Subrato Chowdhury India
- Dr. Surendra Manjrekar Co-Chair
- Dr. Ganesh Thiagarajan University of Missouri Kansas City USA
- Dr. Raghuvir Salkar India
- Dr. Sri Sridharan University of South Florida USA
- Ishita Manjrekar India
- Raman Mangabhai Institute of Concrete Technology UK
- Dr. Kolluru Subramaniam India
PROF. DAVID LANGE
PRESIDENT - ACI

“The 3rd R.N. Raikar Memorial International Conference brings together industry leaders and researchers who are working together to advance concrete technology around the world. The conference promises a high level of presentations and discussions, and we will have the opportunity to honor Prof. Ravindra Gettu and Prof. Venkatesh Kodur. I am looking forward to a memorable experience in India, highlighted by great discussions and friendly socializing with new and old friends. I encourage you to join us in Mumbai in December 2018.”

Prof. David A. Lange
American Concrete Institute President in 2018

KHALED AWAD
PAST PRESIDENT - ACI

“R.N. Raikar was an exceptional contributor to the concrete industry in India. The two previous Memorial conferences honoring him have been similarly successful in inspiring and educating the industry.

The third Memorial Conference that will take place in Mumbai, India on December 14 and 15, 2018 will be another great opportunity for knowledge sharing and meeting experts from around the world.”

Khaled Awad
President, American Concrete Institute

RONALD BURG
EXE. VICE - PRESIDENT - ACI

“I encourage you to attend the 3rd R.N. Raikar Memorial International Conference that will take place on the 14th and 15th of December 2018 in Mumbai, India. This conference will build on the great success of the two previous conferences, and will bring industry experts from around the world to address the important topic of the science and technology of concrete.”

Ronald G. Burg
Executive Vice President, American Concrete Institute
The Conference is supported by Top Institutions

ACI - American Concrete Institute, USA

ACF - Asian Concrete Federation, Thailand (Australia, India, Indonesia, Japan, Korea, Mongolia, Singapore, Taiwan, Thailand, Vietnam)

RILEM - France
The International Union of Laboratories and Experts in Construction Materials, Systems and Structures

IC – IMPACT Government of Canada

University of LEEDS
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<th>Acronym</th>
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<tr>
<td>ICT</td>
<td>Institute of Concrete Technology, London</td>
</tr>
<tr>
<td>JCA</td>
<td>Jordan Concrete Association</td>
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<tr>
<td>CIA</td>
<td>Concrete Institute of Australia</td>
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<tr>
<td>IBRACON</td>
<td>Instituto Brasileiro do Concreto</td>
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<tr>
<td>KCI</td>
<td>Korea Concrete Institute</td>
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ICCYC - Instituto Costarricense del Cemento y del Concreto

CCAA - Cement Concrete & Aggregates Australia

CSSA - Concrete Society of Southern Africa

ICH - Instituto del Cemento y del Hormigón de Chile

MISC - Mexican Institute for Sustainable Concrete
<table>
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<th>International Organizing Committee (IOC)</th>
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<tr>
<td>Dr. Aftab Mufti</td>
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<tr>
<td>Dr. Ahmad Abdelrazaq</td>
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<tr>
<td>Prof. Alejandro Durán Herrera</td>
</tr>
<tr>
<td>Prof. Alva Peled</td>
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<tr>
<td>Mr. Ashok Kakade</td>
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<tr>
<td>Dr. Bekir Pekmezci</td>
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<tr>
<td>Dr. Bryan Magee</td>
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<tr>
<td>Prof. Caijun Shi</td>
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<tr>
<td>Dr. Christopher KY Leung</td>
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<td>Dr. Cristina Zanotti</td>
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<td>Prof. Daman K. Panesar</td>
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<td>Dr. Ekasit Limsuwan</td>
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<td>Mr. Fred Goodwin</td>
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<tr>
<td>Prof. Gaurav N. Sant</td>
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<td>Prof. Hiroo Takada</td>
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<tr>
<td>Dr. Indubhushan Patnaikuni</td>
</tr>
<tr>
<td>Prof. John E. Bolander</td>
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<tr>
<td>Dr. Kazunori Fujikake</td>
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and more…. 
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<th>National Organizing Committee (NOC)</th>
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<tr>
<td><strong>Dr. S. K. Manjrekar, Chair</strong></td>
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<tr>
<td><strong>Mr. Mohan A. Jacob, Co-Chair</strong></td>
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<tr>
<td><strong>Mr. Umesh Magar, Co-Chair</strong></td>
</tr>
<tr>
<td><strong>Ms. Radhika Markan, President, ICACI</strong></td>
</tr>
<tr>
<td><strong>Ms. Ishita Manjrekar, Vice President, ICACI</strong></td>
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<tr>
<td><strong>Mr. Sunny Surlaker, Hon. Secretary, ICACI</strong></td>
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<tr>
<td><strong>Prof. Ravindra Gettu</strong></td>
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<td><strong>Mr. A. K. Tiwari</strong></td>
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<td><strong>Mr. Abhay Ghate</strong></td>
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<td><strong>Mr. Ajay Sahni</strong></td>
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<td><strong>Mr. Alok Bhowmick</strong></td>
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<td><strong>Mr. Amish Bisane</strong></td>
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<td><strong>Mr. Anil Kumar Sharma</strong></td>
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<td><strong>Mr. Ashwin Moghe</strong></td>
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<td><strong>Mr. B. A. Madhukar</strong></td>
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<td><strong>Mr. Chetan Raikar</strong></td>
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<td><strong>Mr. Cyrus Pithawala</strong></td>
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<td><strong>Mr. Debashish Guha</strong></td>
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<td><strong>Mr. Girish Dravid</strong></td>
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<td><strong>Mr. J. K. Kulkarni</strong></td>
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<td><strong>Mr. J. V. Patgaonkar</strong></td>
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<tr>
<td><strong>Mr. Jay Kaktikar</strong></td>
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<tr>
<td><strong>Mr. Jayant Kulkarni</strong></td>
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</tbody>
</table>
Advances in science and technology of cement, admixtures and concrete
Advances in material concept and tailored material properties
Material science of cement and concrete
New cements
Concrete with recycled materials
SCC
Ultra high performance concrete
Energy efficient process and materials
Nano technology
Phase change materials (PCM)
Permeable concrete
Green concrete
Underwater concrete
Hot weather / cold weather concreting
Heavy density concrete
Fibre reinforced concrete
Other related developments
Performance in Service, Prediction of service life and life cycle analysis

✓ Sustainability of concrete
✓ Durability of concrete
✓ Innovative solutions for corrosion prevention of rebars
✓ Improved performance for shrinkage cracking
✓ Transport properties
✓ Structural health monitoring
✓ Smart materials
Fire

- Characterisation of fire, blast and impact loading on structures
- Behaviour of structural materials at high temperatures
- Design of structures for improved resilience
- Strengthening, retrofit and repair
- Design of Bridges for Fire & Blast Resistance (Including Cables & Other Appendages)
- Effects of Fire & Blast on Steel Connections
- Effects of Fire & Blast on Facades & Glass Assemblies
- Performance based design – the developer/owner/user’s perspective
- How to measure and approve fire safety performance of buildings and infrastructure
- Building cladding/facades – the issues of combustibility, fire spread other mitigating options
- Rehabilitation of fire damaged structures
- Methods for fire damage protection
Structural and Civil Engineering Applications

- Advances in structural and civil engineering applications
- Research and current developments
- Innovative & cost effective fire resistant solutions
- Seismic retrofitting
- Quality control related to concrete structures
- Dismantling of structures
- Innovative therapies & practices in structural designs
- Concrete construction & maintenance of structures in different fields of infrastructure, such as:
  - Aviation Structures
  - Railways / Metros
  - Ports and Harbors
  - Nuclear Plants
- Reinforcement Steels and its properties
- Structural Steel
- Corrosion Control
- Corrosion mitigation of Rebars
Characterization, testing and monitoring materials and their properties and associated modeling

✓ Advances in testing material properties
✓ Experimental analysis of concrete structures
✓ Monitoring concrete properties during construction
✓ Non destructive testing
✓ Sensors

✓ Advances in material modeling, fresh state to early age to fracture and damage mechanics
✓ Advanced models from nano to macro scale
✓ Multi-scale modeling
✓ Advanced softwares

Training, skills improvement & continuous professional development

And all other related topics….
SPEAKERS

OF THE CONFERENCE
Dr. S. K. Manjrekar, Chair – R. N. Raikar Conference
Past President - ICACI

Mr. M. A. Jacob, Chair - Scientific Committee

Dr. Surendra P. Shah, Northwestern University, USA

Dr. Ravindra Gettu, IIT Madras, President - RILEM

Dr. Venkatesh Kodur, Michigan State University, USA

Ashok Kakade, Chair - ACI Committee 364, USA
Dr. Ryosuke Otsuka, Utsunomiya University, Japan

Dr. Shunnosuke Ito, Utsunomiya University, Japan

Dr. K. Fujikake, National Defence Academy, Japan

Dr. Mark G. Alexander, University of Cape Town, South Africa

Dr. Serham Guner, University of Toledo, South Africa

Dr. Hou Xiaomeng, Harbin Institute of Technology, China
Selected sets of conference papers will be published in reputed High Impact international journals
# The Popularity R. N. Raikar International Conferences

<table>
<thead>
<tr>
<th></th>
<th>1(^{st}) RNR - 2013</th>
<th>2(^{nd}) RNR - 2015</th>
<th>3(^{rd}) RNR - 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Co-sponsors:</td>
<td>3</td>
<td>10</td>
<td>18</td>
</tr>
<tr>
<td>International Authors:</td>
<td>92</td>
<td>187</td>
<td>199 as on today</td>
</tr>
<tr>
<td>National Authors:</td>
<td>50</td>
<td>89</td>
<td>160 as on today</td>
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</tbody>
</table>
Countries of Participating Authors

- USA
- UAE
- UK
- Turkey
- Thailand
- Spain
- South Africa
- Portugal
- Netherlands
- Norway
- Mexico
- Malaysia
- Zagreb
- Bangladesh
- Canada
- China
- Croatia
- Czech Rep.
- Egypt
- France
- Germany
- Italy
- Japan
Hi Radhika,

Thank you for your response. I have scheduled your event in Imperial Ballroom C at the Grand America on Monday, March 26 from 4:30 pm – 6:00 pm. This room will accommodate 30 people in the u-shape and approximately 30 people around the perimeter of the room. I will arrange for a screen, projector and microphone.

I have added your event in the Convention Program Book as well.

Is there anything else you would need at this time?

Respectfully,

Alexandria Prokic, CMP
Event Planner
38800 Country Club Drive
Farmington Hills, MI 48331
p +1.248.848.3785
International Organizing Committee Meeting
28th March 2017, Detroit
The Second R.N. Raikar Memorial International Conference

Attendees from 23 countries participated in technology transfer with the India Chapter – ACI

by Surendra K. Manjrekar and Radhika Markan

Engineers, scientists, professors, students, government officials, and industry leaders assembled in the Majestic Ballroom of The Lalit Hotel in Mumbai, India, for the second edition of the R.N. Raikar Memorial International Conference, on December 18-19, 2015. The India Chapter – ACI (ICACI) organized the event, and ACI was one of the cosponsors.

This event is one of many initiatives undertaken by the Chapter to promote ACI in the region, which is in line with the latter’s outreach policy. ACI envisions a future where everyone has the knowledge needed to use concrete effectively to meet the demands of a changing world. In keeping with this vision, the ICACI-organized event incorporated 2 full days of technology transfer with presentations on advances in concrete technology. More than 600 participants attended, comprising concrete industry professionals from 23 nations, including the host country.

Conference attendees came from all around the world, such as Canada, Mexico, and the United States from the Americas; France, Italy, Norway, Spain, the Netherlands, the United Kingdom, and Turkey from Europe; Israel, Oman, and the United Arab Emirates from the Middle East; Egypt from Africa; Bangladesh, India, and Nepal from the Indian subcontinent; and Australia, China, Japan, Korea, Singapore, and Thailand from the Far East.

Raikar’s Legacy Honored

R.N. Raikar, after whom the conference was named, was one of the founding members of the ICACI. His sheer hard work and determination catapulted ICACI into a national body and earned it the “Excellent Chapter Award” from ACI for the last two decades. In recognition of his contributions, ACI awarded him with Honorary Membership in 2004.

During his lifetime, RNR, as he was lovingly called, consistently strove to honor persons of Indian origin making exemplary contributions to the concrete field. The first R.N. Raikar Memorial International Conference in 2013 celebrated the achievements of Surendra P. Shah, one of the world’s greatest concrete technologists. This second installment of the
conference recognized two other concrete stalwarts—Nemkumar Banthia and P.A. Muhammed Basheer—by concurrently holding the Banthia-Basheer International Symposium during the 2-day concrete event.

Industry Support

As part of ACI’s Ambassador Program, Kyle Stanish, Walker Restoration Consultants, Chicago, IL, attended the symposium and spoke on the “Evolution of Unbonded Post-Tensioned Concrete in the United States, and its Implications for Lifetime Performance and Restoration Philosophies” in the Inaugural Plenary Session.

In addition to ACI, the conference was supported by top institutions including the Institute of Concrete Technology, London; Asian Concrete Federation, Thailand; Instituto Mexicano del Cemento y del Concreto, Mexico; University of Leeds; Japan Concrete Institute; Korea Concrete Institute; International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM), France; Builders Association of India; Indian Concrete Institute; and Institute for Research, Development and Training of Construction Trade and Management, Bangalore.

ICACI even managed to get support from the Federation of Indian Chambers of Commerce and Industry (FICCI)—considered the voice of India’s industry that reaches out to over 250,000 companies. This was a first for ICACI.

Most relevant to ACI was the support shown by various Indian government bodies, such as ministry corporations, public works departments, and housing development authorities. Participants from these various bodies showed a keen interest in the information, technical resources, and programs that ACI has to offer.

Conference Chair Surendra K. Manjrekar noted: “Indian leadership in cement and construction industry is crucial for global sustainable development. Thus the creation of this ‘expressway’ of knowledge transfer assumes great importance. All our international delegates are essentially ‘technocrat ambassadors’ of their respective countries, and together we are creating an information pool to be handed over to our respective government bodies and private nation builders as a ready reckoner to assist in policy making. I believe our efforts will benefit proactive government bodies and industry, and these R.N. Raikar conferences, besides being of great academic importance, will definitely impact the lives of people of India and other participating countries.”

ICACI set up a separate international editorial board to evaluate technical submissions by various participating countries for inclusion in the international journals Construction and Building Materials (UK) and Cement and Concrete Research (USA).

Positive Feedback from the Event

The conference generated tremendous interest in the ACI Concrete Field Testing Certification program and the ICACI is finalizing the most recent testing batches as a result of the national publicity.

Since the successful conclusion of the conference, ICACI has received numerous accolades. First to compliment was Alejandro Durán-Herrera, ACI Board of Direction, who stated: “I congratulate the entire ICACI team for the successful implementation of the Second R.N. Raikar Memorial International Conference. The conference had three sessions running in parallel, a testimony to the importance given by both speakers and audiences to this event. Personally for me, it was delightful to attend the conference yet again and spend time with concrete professionals and my colleagues from the India Chapter – ACI.”

Joining him, Michael Grantham, President of the Institute of Concrete Technology, UK, noted: “I offer my heartfelt appreciation to the ICACI team for the seamless arrangements
and the wonderful hospitality it showed me and all the international visitors to the conference. We were all overwhelmed by the welcome we received and the kindness, good humor, knowledge, and professionalism of the ICACI team. I will most certainly be returning to India for another visit and have bookmarked your next conference as a ‘must visit’.

It is noteworthy to mention that the concluding plenary session was as well attended as the inaugural plenary session. A key takeaway that emerged in the concluding session was a genuine appreciation for the opportunity for representatives from like-minded concrete professional organizations and firms from all over the world to talk, network, exchange ideas, and set up paths for future collaborations, resource exchange, and knowledge sharing.

All participants thanked ICACI for giving them an opportunity to participate in a conference of such high technical content. Whether it was the design aspects of the 1 km (0.6 mile) tall Kingdom Tower in Saudi Arabia, or the complexities of the 151-story Incheon Tower in South Korea, the participants were delighted to have gained knowledge of a vast array of subjects.

Three networking dinners were organized for the participants as part of the overall program. While two were held in the conference venue, the final and concluding dinner engagement was organized at the residence of Conference Chair Manjrekar. It was a traditional Indian spread and all guests were treated to classical Indian music, traditional henna hand painting, colorful Indian stoles, and spicy Indian cuisine. Some of the international female speakers tried on the traditional Indian sari, and even managed to dance along with the peppy Bollywood music.

Upcoming Plans
All in all, the second edition of the R.N. Raikar Memorial International Conference and the Banthia-Basheer International Symposium was a grand success. The ICACI has already started working on the third installment, scheduled for 2017.

Selected for reader interest by the editors.
### Delegate Fees

#### 3rd R N Raikar Memorial International Conference

<table>
<thead>
<tr>
<th>INDIAN DELEGATES</th>
<th>INR 12,000 + 18% GST (Before 1st October 2018)</th>
<th>INR 13,500 + 18% GST (After 1st October 2018)</th>
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<tr>
<td>INTERNATIONAL DELEGATES</td>
<td>USD 500 including taxes (Before 1st October 2018)</td>
<td>USD 625 including taxes (After 1st October 2018)</td>
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</table>

- **25% discount** for main authors
- **10% discount** for members of ICACI and supporting organisations
- **50% discount** for students
- **60% discount** for ACI student chapter members

- Authors / Co-authors/ presenters need to pre-register.

- Conference fee includes Delegate kit, Conference document, Lunch and Tea/Coffee on all days.

- Credit card facility is available for spot registrations. (Master / Visa / American Express / Diners Club cards preferred).
## EXHIBITION

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<th>ONE STALL</th>
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<td>Foreign Exhibitor</td>
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## ADVERTISEMENTS

For all 3 volumes of conference proceeding

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<th>INR (Total)*</th>
<th>US$ (Total)**</th>
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*Excluding 18% GST

** Excluding Taxes
## PARTNERING OPPORTUNITY

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<tr>
<th>Category</th>
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MODE OF PAYMENT

By cheque or demand draft payable at Mumbai in favour of “India Chapter of ACI”.

For electronic transfer IFSC Code : IDIB000M008.

SB A/C : 000000419657905    SWIFT : IDIBINBBBFT

Bank Name : Indian Bank, Mahim Branch, Mumbai 400016.

Bank Address : 1, 1A Raj Mahal CHS., Plot No. 542, MMC Road, Mahim (West), Mumbai 400 016.

Online Registration can be done at www.icaci.com
In 2\textsuperscript{nd} R. N. Raikar conference, during the concluding session, India Chapter of ACI was requested by all the international delegates to take natural leadership role in the process of ‘Global Technology Transfer’ simply because of the size of concrete manufacturing as well as technological developments in the country.
THERE ARE SEVERAL "FIRSTS" WHICH WILL MAKE A GREAT DEAL OF DIFFERENCE TO THE 3rd R. N. RAJKAR INTERNATIONAL CONFERENCE & ITS DELEGATES.

IN CONCLUSION
About **70 international papers** are received so far which represents participation of **25 major countries**. More countries are likely to join in coming days.

**Government of Canada initiative IC – IMPACT** has supported the conference. This is for the first time that a foreign country has supported the conference.

**“ACI Committee 364” on rehabilitation** is holding a **full session** in the conference. This is for the first time that the ACI committee is holding a full session outside USA.

**20 international professional associations** have supported the event.

**Special session** is proposed by **Canadian Concrete Association**.

**Special sessions** by other countries like **Mexico, USA, Turkey etc.** are also under consideration.

**High impact international journals** are associated with the conference. And **many more to come**.

**Russia, China, USA and India** are likely to make **full session on Nano Technology** with initiative from BRICS countries program and **ACI Committee 241**.

It is contemplated to have a **combined meeting** of **ACI Committee 364** and **BIS Committee on Repair** during this conference in Mumbai.

**Dr. S. K. Ghosh – Chicago** expert in “**Earthquake Resistant Design**” has accepted to give lecture in the conference.
A man often described as the Living Legend of civil engineers the world over – Prof. V. M Malhotra will be a key note speaker at the highly-awaited 3rd R. N. Raikar Conference to be held in Mumbai on 14-15 December 2018.
Dr. V. M. Malhotra himself is making a 20 mins presentation during the launch of this book with reference to Global/Indian Case Studies.

Concrete is an environmentally friendly material of choice for the construction of the world’s vast infrastructure. Tall reinforced-concrete buildings, highway bridges, pavements, water-retaining structures and residential buildings are all testimonials to concrete’s use and versatility. Unfortunately, portland cement, the binder of modern concrete mixtures, is not as environmentally friendly. The production of one tonne of portland-cement clinker releases about one tonne of CO₂ emissions to the atmosphere. The world’s current portland cement production of nearly 3.0 billion tonnes a year, contributes to the earth’s atmosphere about two billion tonnes of CO₂, which is approximately 7% of the total CO₂ emissions from all sources, and CO₂ is one of the primary greenhouse gases responsible for global warming and climate change. This book describes a powerful technology known as high-volume fly ash concrete, according to which more than 50 percent of portland-cement clinker in cements can be replaced by fly ash, resulting in concrete products that are superior to normal portland-cement concrete in mechanical properties, durability and therefore sustainability.

The Authors

V.M. Malhotra is President of Supplementary Cementing Materials for Sustainable Development Inc., Ottawa, Canada. Dr. Malhotra is honorary member of ACI, Concrete Society of the U.K., and the Brazilian Concrete Institute. He is a recipient of numerous awards from various institutes worldwide, including honorary degree of doctor of laws from the University of Dundee, Scotland, and honorary degree of doctor of engineering from the Universidad Autonoma de Nuevo Leon, Mexico. He is the author and coauthor of several books on concrete technology.

P.K. Mehta is a Professor Emeritus in Civil and Environmental Engineering Department at the University of California at Berkeley. He holds several patents, and is the author or coauthor of four books on concrete technology. His text book, “Concrete: Microstructure, Properties, and Materials (co-author, P.J.M. Monteiro) has been translated into Chinese, Japanese, Portuguese and Spanish. He is honorary member of ACI and a recipient of many prestigious awards, including the Berkeley Citation.

In October 2012, the authors were awarded jointly the ACI Concrete Sustainability Award for their pioneering and continuing efforts to introduce and support the concept of sustainability within the concrete industry.
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