



Fall 2018 | Las Vegas
The Concrete Convention
and Exposition

“WIDESPREAD ACTIVITIES OF INDIA CHAPTER” 2017 - 2018



**Dr. Surendra Manjrekar,
Honorary Member**

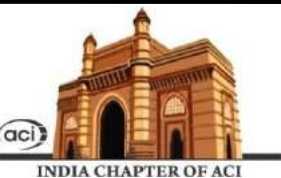
**Sourabh Manjrekar
Director**



Many General Activities are being performed in India Chapter of ACI...



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INDIA CHAPTER OF ACI AWARDED 'EXCELLENT CHAPTER' STATUS. DURING THE ACI SPRING CONVENTION, SALT LAKE CITY, USA, 24th – 29th MARCH 2018.

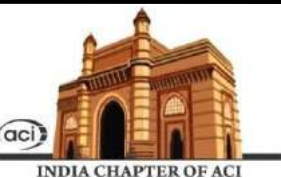




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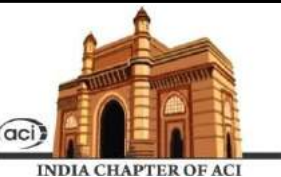


**SURENDRA KESHAV MANJREKAR RECEIVES
HONORARY MEMBERSHIP AT SALT LAKE CITY,
UTAH, USA, MARCH 2018**





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ICACI'S INTERNSHIP PROGRAMME A BIG HIT WITH STUDENTS

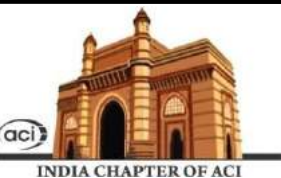




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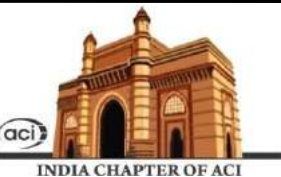


**KONGU ENGINEERING COLLEGE TWO DAY NATIONAL CONFERENCE
ON "IMPORTANCE OF SUSTAINABILITY IN CONCRETE
STRUCTURES ON 6-7 AUGUST 2018"**





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**STUDENT CHAPTER MEMBERS OF ICACI UNDERTAKE
SUCCESSFUL ON-SITE STUDY TOUR, AT SANJAY GHODAWAT
GROUP OF INSTITUTIONS (SGI), KOLHAPUR**





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Dr. V. A. Raikar, Vice Chancellor of SGI, felicitates Chief Guest, Dr. Surendra Manjrekar, Honorary Member, ACI.



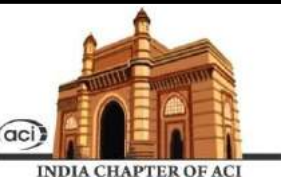
Chief Guest, Dr. Surendra Manjrekar, Honorary Member, ACI, speaks during the inaugural session of Concrete Fest 2K18.



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 Day1.



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”**



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The Concrete Convention
and Exposition

**“INTERNATIONAL
CONFERENCE
OF THE DECADE IN
ASIAN CONTINENT”
14th & 15th DECEMBER
2018.**



Dr. Surendra Manjrekar,
Honorary Member

Mohan Jacob
Past President

Sourabh Manjrekar
Director





Welcome to
R. N. Raikar International Conference

**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



**India Chapter
of American Concrete Institute**



**American
Concrete
Institute**



R. N. RAIKAR
Memorial International Conference

**A GALAXY OF INTERNATIONAL &
INDIAN EXPERTS WILL ENLIGHTEN
THE AUDIENCE**

The Mission –

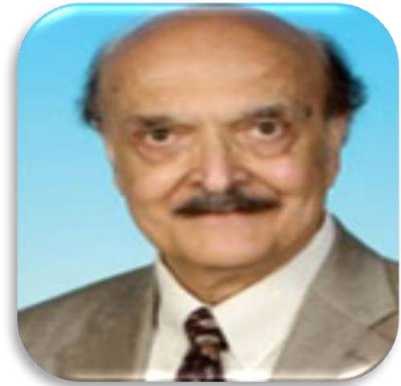
- a. To introduce the participants to the cutting edge technologies in the field of concrete and concrete construction.**
- b. To facilitate technology transfer.**



R. N. Raikar - International Conferences

1st – 2013

'Suru Shah' International Symposium



2nd - 2015

'Banthia-Basheer' International Symposium



3rd - 2018

'Gettu - Kodur' International Symposium



1st R. N. Raikar Intl. Conf. - 2013



Almost 550 delegates participated - A resounding success and technical extravaganza par excellence

Glimpses - 1st R. N. Raikar Intl. Conf.- 2013



2nd R. N. Raikar Intl. Conf. - 2015



a place of mind



UNIVERSITY OF LEEDS



RAIKAR GROUP



Glimpses - 2nd R. N. Raikar Intl. Conf.-2015



3rd R. N. Raikar Intl. Conf. - 2018

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|---------------|--------|---------|-----------|----------|--------|----------|
| 2018 DECEMBER | | | | | | |
| 25 | 26 | 27 | 28 | 29 | 30 | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | 1 | 2 | 3 | 4 | 5 |

Important Dates
3rd R N Raikar Memorial
International Conference

14 - 15 December 2018, Mumbai

VENUE



ST REGIS

The St. Regis Mumbai



This conference is felicitating:

**TWO TOWERING PERSONALITIES,
PROF. RAVINDRA GETTU AND PROF. VENKATESH KODUR
WILL BE FELICITATED BY CONVENING
AN INTERNATIONAL SYMPOSIUM IN THEIR HONOUR**



Prof. Ravindra Gettu

IIT Madras

President – RILEM

Ex- Director – Universitat Politècnica de Catalunya, Barcelona, Spain



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH



Prof. Venkatesh Kodur

Distinguished Professor
Michigan State University
United States



Invitation to Participate

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

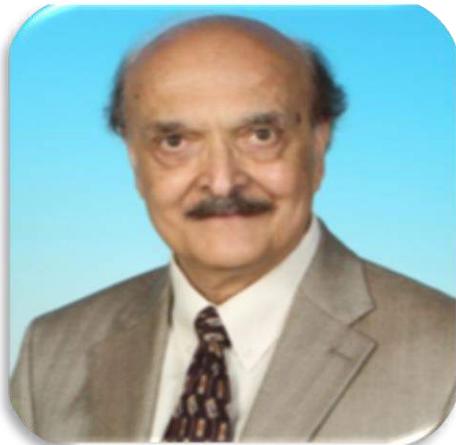


Umesh Magar
Co-Chair

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**



Messages - American Concrete Institute



American Concrete Institute
Always advancing

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



IC – IMPACT Government of Canada



University of LEEDS



UNIVERSITY OF LEEDS

RILEM - France

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



ACF - Asian Concrete Federation, Thailand

(Australia, India, Indonesia, Japan, Korea, Mongolia, Singapore,
Taiwan, Thailand, Vietnam)



ICT - Institute of Concrete Technology, London



The Concrete Society (UK)

The Concrete Society
Established in 1966

JCA - Jordan Concrete Association



جمعية الخرسانة الأردنية
Jordan Concrete Association

CIA - Concrete Institute of Australia

CONCRETE INSTITUTE 
of AUSTRALIA

IBRACON - Instituto Brasileiro do Concreto



KCI - Korea Concrete Institute



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



Hong Kong Concrete Institute



香港混凝土學會
Hong Kong Concrete Institute

Alconpat Brazil



CIDC - Construction Industry Development
Council, India



ACI Committee 364 - Rehabilitation



many more...

International Organizing Committee (IOC)

| | | | | | |
|-------------------------------|-----------|------------------------------|--------------|-----------------------------|--------------|
| Dr. Aftab Mufti | Canada | Prof. Keitetsu Rokugo | Japan | Prof. Piti Sukontasukkul | Thailand |
| Dr. Ahmad Abdelrazaq | Korea | Prof. Dr. Klaas Van Breugel | Netherlands | Dr. Pierre Rossi | France |
| Prof. Alejandro Durán Herrera | Mexico | Dr. Lan Chung | Korea | Prof. Prasada Rao Rangaraju | USA |
| Prof. Alva Peled | Israel | Dr. Liberato Ferrara | Italy | Prof. Raman Mangabhai | UK |
| Mr. Ashok Kakade | USA | Prof. Luca Sorilli | Canada | Dr. Rishi Gupta | Canada |
| Dr. Bekir Pekmezci | Turkey | Dr. M. Shahria Alam | Canada | Prof. Roger | West Ireland |
| Dr. Bryan Magee | UK | Dr. Manote Sappakittipakorn | Thailand | Dr. Robert Lewis | UK |
| Prof. Caijun Shi | China | Dr. Michael Grantham | London | Prof. Salah Toubat | UAE |
| Dr. Christopher KY Leung | Hong Kong | Dr. Mohamad Nagi | UAE | Dr. Sanjay Mehta | USA |
| Dr. Cristina Zanotti | Canada | Mouza Abdullah Al-Salmi | Oman | Prof. Shamim A. Sheikh | Canada |
| Prof. Daman K. Panesar | Canada | Prof. Mukesh Limbachiya | UK | Dr. Sokhwan Choi | Korea |
| Dr. Ekasit Limsuwan | Thailand | Prof. Narayanan Neithalath | USA | Dr. Vellore S. Gopalaratnam | USA |
| Mr. Fred Goodwin | USA | Dr. Nasser Darwish | Egypt | Prof. Venkatesh Kodur | USA |
| Prof. Gaurav N. Sant | USA | Dr. Nilufer Ozyurt Zihnioglu | Turkey | Dr. Vilas Mujumdar | USA |
| Prof. Hiroo Takada | Japan | Dr. Olga Rio | Belgium | Prof. Vivek Bindiganavile | Canada |
| Dr. Indubhushan Patnaikuni | Australia | Dr. Pedro Castro Borges | Mexico | Prof. Zongjin LI | Hong Kong |
| Prof. John E. Bolander | USA | Prof. Peter Robery | UK | Prof. Mohamed El Gawady | USA |
| Dr. Kazunori Fujikake | Japan | Prof. Mark G. Alexander | South Africa | and more.... | |

National Organizing Committee (NOC)

| | | |
|--|---------------------------------|--------------------------------|
| Dr. S. K. Manjrekar, Chair | Mr. K. K. Varkhedkar | Dr. Raghuvir Salkar |
| Mr. Mohan A. Jacob, Co-Chair | Dr. K. V. L. Subramaniam | Mr. Rajan Kataria |
| Mr. Umesh Magar, Co-Chair | Mr. Kamal Hadker | Dr. Ramchandran |
| Ms. Radhika Markan, President, ICACI | Mr. Kaustubh Raikar | Dr. Ravi Sinha |
| Ms. Ishita Manjrekar, Vice President, ICACI | Mr. L. D. Shah | Mr. S. B. Patil |
| Mr. Sunny Surlaker, Hon. Secretary, ICACI | Ms. M. A. Shende | Mr. S. R. Darade |
| Prof. Ravindra Gettu | Mr. M. B. Dagaonkar | Mr. S. S. Chaudhari |
| Mr. A. K. Tiwari | Mr. Mahesh Mudda | Mr. S. S. Kutumbale |
| Mr. Abhay Ghate | Prof. Mahesh Tandon | Mr. Samir Surlaker |
| Mr. Ajay Sahni | Mr. Manoj Kavalkar | Ms. Sangita Wij |
| Mr. Alok Bhowmick | Mr. Mukul Parikh | Mr. Sanjay Pant |
| Mr. Amish Bisane | Mr. Muninder Seeru | Mr. Sarvagya Srivastava |
| Mr. Anil Kumar Sharma | Dr. N. Ramprakash | Mr. Satish Dhupelia |
| Mr. Ashwin Moghe | Mr. N. V. Kudale | Mr. Shashank Mehendale |
| Mr. B. A. Madhukar | Dr. N. V. Nayak | Mr. Shishir Bansal |
| Mr. Chetan Raikar | Mr. Nilotpal Kar | Mr. Sourabh Manjrekar |
| Mr. Cyrus Pithawala | Mr. Nitin Kanvinde | Mr. Upen Patel |
| Mr. Debashish Guha | Dr. P. R. Swarup | Mr. V. B. Gadgil |
| Mr. Girish Dravid | Mr. Pankish Goel | Prof. V. B. Vanvari |
| Mr. J. K. Kulkarni | Mr. Pankaj Shah | Mr. V. G. Jana |
| Mr. J. V. Patgaonkar | Mr. R. K. Gupta | Mr. Vikas Raikar |
| Mr. Jay Kaktikar | Mr. R. K. Markan | Dr. Vishal Thombare |
| Mr. Jayant Kulkarni | Mr. R. V. Sonje | |

TOPICS FOR CONFERENCE



Topics for Conference
3rd R N Raikar Memorial
International Conference

14 - 15 December 2018, Mumbai

Novel Cements and Advanced Materials

- ✓ **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



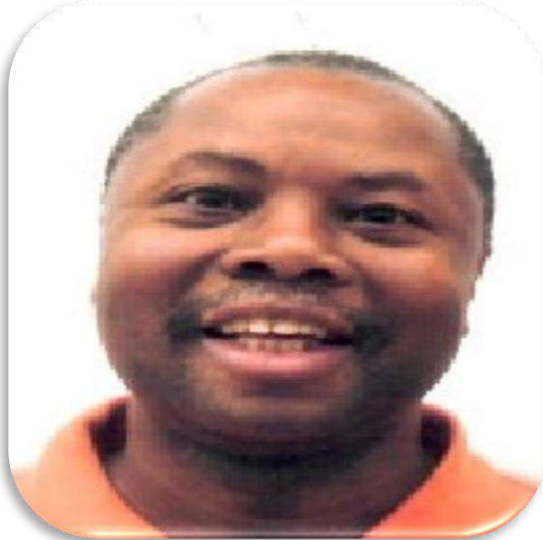
Dr. Venkatesh Kodur,
Michigan State
University, USA



Ashok Kakade,
Chair - ACI Committee
364, USA



Fred Goodwin
Past Chair - ACI
Committee 364, USA



Clyde Porter, ACI
Committee 364, USA



David Vanocker, Past
Chair – Committee ACI
364 , USA



Peter H Emmons,
Columbia MD Past Chair -
ACI Committee 364, USA



Keith Kenser,
Chair ACI Committee 562,
USA



Dr. Ravi Ranade, Buffalo
State University of New
York, USA



**Dr. Ara A. Jeknavorian,
Jeknavorian Consulting
Services, USA**



**Dr. Yogiraj Sargam, Iowa
State University, USA**



**Dr. Pete Barlow, Vice
President, America's,
Contech Services, Inc., USA**



**Dr. Ahmed A. Gheni, Missouri
University of Science and
Technology, USA**



**Dr. Mohamed A. ElGawady,
Missouri University of Science
and Technology, USA**



**Asit N Baxi, Missouri Baxi
Engineering, Inc., USA**



**Dr. Ian Burgess,
University of Sheffield,
UK**



**Dr. Satish Desai, London,
UK**



**Dr. Asif Hussain Shah,
The University of
Sheffield, UK**



**Dr. Rishi Gupta,
University of Victoria,
Canada**



**Dr. Claude Bédard,
VP - Euclid Group,
Canada**



**Dr. Ashutosh Bagchi,
Concordia University,
Canada**



**Dr. Vivek Bindiganavile,
University of Alberta,
Canada**



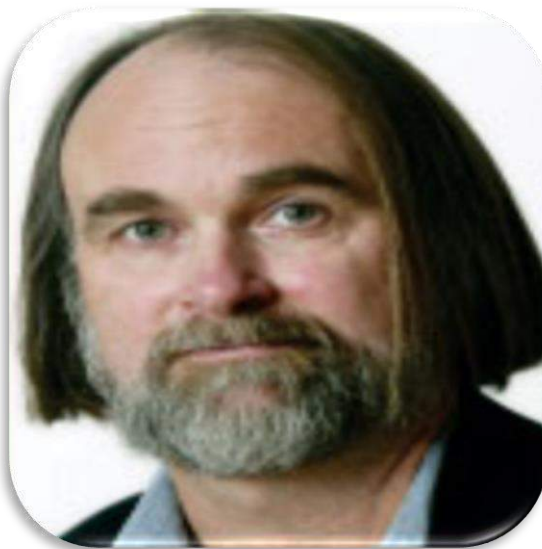
**Dr. Salim Barbhuiya,
Curtin University, Australia**



**Dr. D. S. Cheema, Curtin
University, Australia**



**Dr. Salah Altoubat,
University of Sharjah, UAE**



**Harald Justnes SINTEF,
Norway**



**Dr. Bojan Milovanovic,
Sveuciliste u Zagrebu,
Croatia**



Dr. Johann Plank,
Technische Universität
München Lehrstuhl für
Bauchemie, Germany



Dr. Martin Scheurer,
Institute of Textile
Technology, Germany



Dr. Liberato Ferrara,
Polytechnic University of
Milan, Italy



Giorgio Ferrari,
Mapei SpA, Italy



Dr. Federico Longhi,
Mapei SpA,
Italy



Dr. Raúl Zerbino,
National University of La
Plata, Italy



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



Dr. Bekir Y. Pekmezci,
Istanbul Technical
University, Turkey



Dr. A. H. Akca,
Yildiz Technical University,
Turkey



Dr. Arton Dautaj,
University of Prishtina,
Europe



Dr. Alejandro Duran
Herrera, Monterrey, N. L.
Mexico



Dr. Ing. Peddro Castro
Borges, Editor Alconpat
Revista, Mexico



Arturo Gaytan
Covarrubias, CEMEX,
Mexico



**Dr. Paulo Helene,
University of São Paulo,
Brazil**



**Bernardo F Tutikian,
Instituto Tecnológico de
Desempenho, Brazil**



**Dr. Dhanada K Mishra, Hong
Kong University of Science
and Technology, Hong Kong**



**Dr. Vlastimil Bilek, Technical
University Ostrava,
Czech Republic**



**Dr. Wald František, Czech
Technical University in Prague
Czech**



**Dr. Ekasit Limsuwan
Chulalongkorn University,
Thailand**



**Dr. Dubravka
Bjegovic, University
of Zagreb, Croatia**



**Dr. Ana Baričević,
University of
Zagreb, Croatia**



**Dr. Pierre Rossi
IFSTTAR, France**



**Dr. Carmen Andrade
Intl. Centre for Numerical
Methods
in Engg. (CIMNE), Spain**



**Dr. Alma Reyes
Central - South Mexico
Chapter ACI, Benito Juarez,
Mexico**



**Dr. Daman K. Panesar
University of Toronto,
Canada**



Dr. Nilufer Ozyurt Zihnioglu
Bogazici University, Turkey



Dr. Ozlem Akalin
Plustechno Ltd.,
Turkey



Dr. Kejin Wang, Iowa
State University, USA



Dr. Hai Yan Zhang
South China University of
Technology, China



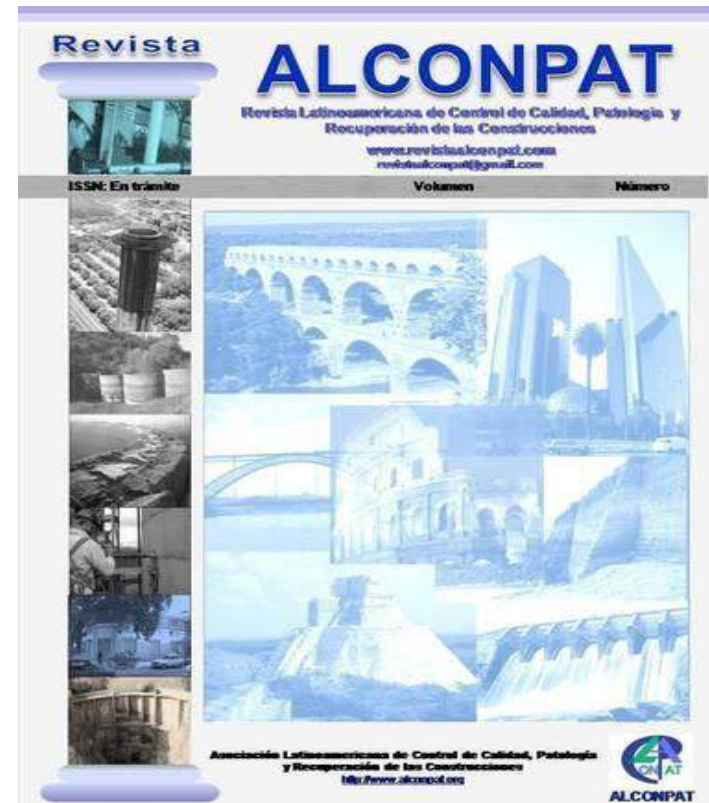
Dr. Ling Wang
China Building Materials
Academy, China

International Journals

Selected sets of conference papers will be published in reputed High Impact international journals



CCR



Revista ALCONPAT

The Popularity R. N. Raikar

International Conferences

| | 1st RNR - 2013 | 2nd RNR - 2015 | 3rd RNR - 2018 |
|--|--------------------------------------|--------------------------------------|--------------------------------------|
| International Co-sponsors : | 3 | 10 | 18 |
| International Authors : | 92 | 187 | 199 as on today |
| National Authors : | 50 | 89 | 160 as on today |

Countries of Participating Authors

Zagreb USA UAE UK Turkey Thailand Spain

Australia

South Africa

Algeria

Portugal

Brazil

Netherland

Bangladesh

Norway

Canada

China

Mexico

Croatia

Malaysia

Czech Rep.

Egypt

Japan

France

Germany

Italy



International Organizing Committee Meeting was held on

Monday, March 26 from 4:30 pm – 6:00 pm, Salt Lake City

From: **Alexandria R. Prokic** <Alex.Prokic@concrete.org>
Date: 8 February 2018 at 21:11
Subject: RE: FW: Request for 'Time slot' for India Chapter at ACI Convention, Salt Lake City
To: Radhika Markan <radhika.markan@gmail.com>

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

American Concrete Institute | *Always advancing*
www.concrete.org

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 strived 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



The overseas dignitaries and ICACI Board of Directors pose for a group photograph at the start of the R.N. Raikar Memorial International Conference



ICACI President Pankaj Shah (center) and Conference Chair Surendra K. Manjrekar (right) honor Alejandro Durán-Herrera, ACI Board of Direction member (left)

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 municipal 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



Conference mentor Surendra P. Shah (left) congratulates conference honoree Nemkumar Banthia (right)

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, I was delighted 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



Conference mentor Shah (second from left) with conference honoree P.A. Muhammed Basheer (second from right). They are joined on stage by Manjrekar (left) and Banthia (right).

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.



Kyle Stanish speaks at the Inaugural Plenary session



An audience of over 600 technocrats attended the event



CAC Strategic Planning Task Group; and ACI Committee 364, Rehabilitation.

Surendra K. Manjrekar, F.ACI, is Principal of Sunanda Speciality Coatings Pvt. Ltd., Mumbai, India. A three-time Past President of the India Chapter – ACI, he served as Conference Chair for the Second R.N. Raikar Memorial International Conference. Manjrekar is a member of the International Certification Committee, Chapter Activities Committee (CAC),



Radhika Merkan is the Managing Director, H&K Rolling Mill Engineers Pvt. Ltd. Previously, she was the Regional Manager for Emirates Airline, based at its headquarters in Dubai, UAE. Merkan was recently appointed as CEO, Thermex Rebar Manufacturers' Association (TRMA), and as a Director, India Chapter – ACI.

Delegate Fees

3rd R N Raikar Memorial International Conference

| | | |
|--------------------------------|---|--|
| INDIAN DELEGATES | INR 12,000 + 18% GST (Before 1st October 2018) | INR 13,500 + 18% GST (After 1st October 2018) |
| INTERNATIONAL DELEGATES | USD 500 including taxes (Before 1st October 2018) | USD 625 including taxes (After 1st October 2018) |

| | |
|---------------------|--|
| 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

ONE STALL

| | |
|-------------------|-------------------------------|
| Indian Exhibitor | INR 60,000 + taxes |
| Foreign Exhibitor | US \$ 2000 inclusive of taxes |

ADVERTISEMENTS

For all 3 volumes of conference proceeding

| | INR (Total)* | US\$ (Total)** |
|--------------------|--------------------|--------------------|
| Back Cover | 200,000 | 3,500 |
| Front Inside Cover | 150,000 | 2,500 |
| Back Inside Cover | 150,000 | 2,500 |
| Full Page Colour | 25,000 | 600 |
| | *Excluding 18% GST | ** Excluding Taxes |

PARTNERING OPPORTUNITY

| Category | Fees (INR) | Logo on | Complementary Delegates | Presentation Time |
|---------------------|---------------------|--------------------|-------------------------|-------------------|
| Solitaire | 10 lakhs + 18% GST | Marketing Material | 10 | 10 Minutes |
| Platinum | 7.5 lakhs + 18% GST | Marketing Material | 7 | 5 Minutes |
| Gold | 5 lakhs + 18% GST | Marketing Material | 5 | 5 Minutes |
| Silver | 2.5 lakhs + 18% GST | Marketing Material | 3 | 5 Minutes |
| Lunch/Dinner | 5 lakhs + 18% GST | Marketing Material | 5 | 5 Minutes |
| Kit Sponsor | 1 lakhs + 18% GST | Marketing Material | - | - |

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 2nd 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.



- 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**.

INDIA'S CONCRETE INDUSTRY WAITS WITH BATED BREATH AS WORLD'S FOREMOST CONCRETE EXPERT CONFIRMS HIS PARTICIPATION AT 3RD R. N. RAIKAR CONFERENCE

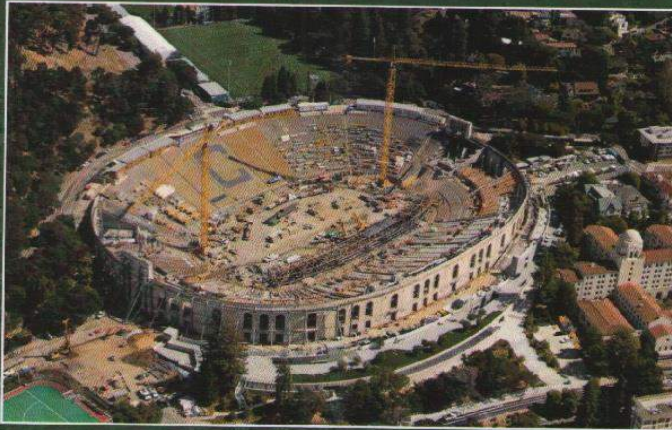


A man often described as the Living Legend of civil engineers the world over – Prof. V. M Malhotra will be a key note speaker at the highly-awaited 3rd R. N. Raikar Conference to be held in Mumbai on 14-15 December 2018.

HIGH-PERFORMANCE, HIGH-VOLUME FLY ASH CONCRETE

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V.M. Malhotra and P.K. Mehta

HIGH-PERFORMANCE, HIGH-VOLUME FLY ASH CONCRETE

*for Building Durable
and Sustainable Structures*

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 CO_2 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 CO_2 , which is approximately 7% of the total CO_2 emissions from all sources, and CO_2 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.

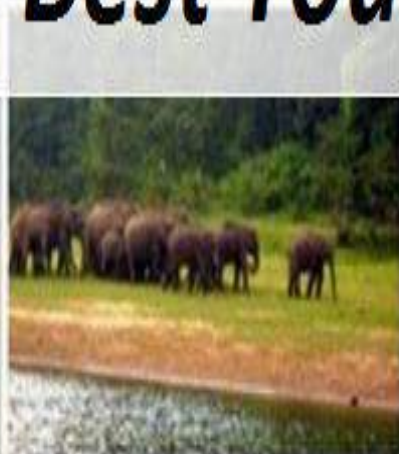
P.K. Mehta is a Professor Emeritus in Civil and Environmental Engineering Department at the University of California at Berkeley. He holds several patents, and is the author or coauthor of four books on concrete technology. His text book, "Concrete: Microstructure, Properties, and Materials (co-author, 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.

Dr. V. M. Malhotra himself is making a 20 mins presentation during the launch of this book with reference to Global/ Indian Case Studies.



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