

Dept. of Civil & Env. Engineering  
EB 3546, Michigan State University  
East Lansing, MI 48824

**Venkatesh KODUR, Ph.D., P.Eng., F.NASI, F.RSC  
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University Distinguished Professor & Director**

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## Expertise

- [https://en.wikipedia.org/wiki/Venkatesh\\_K.\\_R.\\_Kodur](https://en.wikipedia.org/wiki/Venkatesh_K._R._Kodur) or <https://vkodur.wixsite.com/kodur>
- Experimental behavior & analytical modeling of structures under extreme fire conditions; Constitutive modelling of material properties at elevated temperatures; Developing guidelines for fire resistance design of structures; Evaluating fire performance of high performing materials; Performance based fire design; Non-linear design & analysis of structures; Damage assessment & rehabilitation of structures; Failure investigations; AI & ML based techniques.

## Highlights of Accomplishments in the last 6 Years

- Completed 6 major research projects funded from diverse funding agencies; and developed innovative & cost-effective fire safety solutions for minimizing fire hazard.
- Established collaborations with dozen+ international universities for research & outreach
- Elected as *Fellow of National Academy of Science, India*
- Elected as *Fellow of Academy of Science of Royal Society of Canada*
- Significant international recognition: Selection as *Fulbright Specialist*; and Appointment as “*INFOSYS Visiting Chair Professor*” at the Indian Institute of Science, Bangalore, India.
- Awarded Govt. of India “*VAJRA Faculty Award (grant) for Collaborative Research*”.
- Appointments as *Distinguished Visiting/Adjunct Professor* at the Indian Institute of Tech.-Bombay; IIT-Delhi, India; U. of Waterloo, Canada. and EWHA Woman’s University, Korea
- Awarded “*University Distinguished Professor*” rank, the highest academic rank at MSU.
- Elected as Chair of *Structures in Fire* steering committee. Invited to serve on *external review/advisory committee* of departments at the *Univ. of Maryland & IIT-Hyderabad* (India).
- Served as the “*Chairperson*” of the Department of Civil & Env. Engineering at MSU.
- Established state-of-the-art fire testing facilities for material & structural systems
- Currently advising research of 5 Ph.D., 2 M.S. students and 3 research Scholars.
- Organized (as *Chair*) numerous international conferences and workshops around the world.
- Invited to research proposal review panels from various funding agencies: US (NSF), Hong Kong (RGC), Belgium, Singapore, UK (EPSRC), Canada (NSERC, IC-IMPACTS), UAE
- Published 3 books, 80 journal and 50 conference papers, and 4 book chapters
- Invited to deliver 40+ *Keynote/Plenary presentations* at major international conferences
- Felicitated for ‘contributions to the fields of concrete technology & structural/fire engineering’ through organizing “*Gettu-Kodur International Symposium on Advances in Science & Technology of Concrete*” – American Concrete Institute (India); & also by BITS-Pilani, India
- Numerous international awards including, election as *Fellow* of eight top *Academies/Societies*
- Appointed as *Associate Editor-in-Chief* & as *Editorial Board Member* of 8 leading Journals.

## Summary of Publications

- Total publications (peer-review papers):~522 (+11\*) (full-list – See Publications section)
  - Refereed journal papers: 330 (+11\*) Refereed conf. papers: 192
  - Non-refereed conf. papers: 67 Books (Authored & Edited): 17
  - Chapters (Refereed) in books: 30 Tech/Research Reports: 53
  - Trade Magazines: 28 Media Interviews: 115
  - Plenary/Keynote presentations: 112 Invited presentations: 149
- \*submitted for publication

## Citation Record

Source	<i>h-index</i>	<i>No. of citations</i>	<i>No. of publications</i>
Google Scholar	91	27,000	699
Scopus	75	17,171	342
Web of Science	72	15,535	352
Research Gate	80	20,882	549

Google Scholar:

[http://scholar.google.com/citations?hl=en&user=MCFru8AAAAAJ&view\\_op=list\\_works&cstart=20](http://scholar.google.com/citations?hl=en&user=MCFru8AAAAAJ&view_op=list_works&cstart=20)

## Summary of Advising Activities

### Students/Scholars Advised

Degree	Ph.D.	M.S. (Research)	PDF + Visiting Scholars	Undergraduate RA's
Current	5	2	2	
Graduated	25	29	29	20

## Education

<b>Ph.D. Structural Eng.</b>	<i>Queen's University, Canada</i>	1992
<b>M.Sc. Structural Eng.</b>	<i>Queen's University, Canada</i>	1988
<b>B.E. Civil Eng.</b>	<i>Bangalore University, India</i>	1985
<b>P.U.C. Science</b>	<i>National College, Bangalore, India</i>	1979

## Scholarships/ Fellowships

Scholarship	Source	Degree	Period
Graduate Fellowship	<i>Queen's University, Canada</i>	Ph.D.	1988-92
Graduate Fellowship	<i>Queen's University, Canada</i>	M.Sc.	1986-88
National Merit Scholarship	<i>Govt. of India</i>	B.E.	1979-84
National Merit Scholarship	<i>Govt. of India</i>	Pre Univ.	1977-79
National Merit Scholarship	<i>Govt. of Karnataka</i>	High School	1974-77

## Appointments

**2005-Present** *Michigan State University, East Lansing, MI, USA*

**2017-Present** **University Distinguished Professor** *Dept. of Civil & Env. Engineering (CEE)*  
**2005-2017** **Professor of Structural Engineering** *Dept. of Civil & Env. Engineering (CEE)*  
**2007-Present** **Director of SAFE-D Center** *Dept. of Civil & Env. Engineering (CEE)*

**2016-2019** **Chairperson** *Department of Civil & Env. Engineering (CEE)*  
**2015-2016** **Associate Chairperson, Graduate Studies** *Dept. of Civil & Env. Engineering*

## Research

- Secured, thus far, more than 30 competitive research projects, valued at over \$5 million, from diverse funding agencies for undertaking research. Currently managing 4 research projects valued \$0.4 million.
- Advised (thus far at MSU) graduate students: Completed: 22 Ph.D., 25 M.S., 23 PDF/visiting scholars and 13 under graduate (UG) research interns
- Currently advising: 5 Ph.D., 1 M.S students and 3 visiting scholars.
- Developed state-of-the-art test facilities for undertaking fire experiments on material/structural systems for evaluating fire performance.
- Engaged in research projects on developing methodologies & innovative technologies in structural, material and fire areas.

## Teaching

- Developed and taught the following undergraduate and graduate courses in Civil (structural) Engineering:
  - CE 405 - Introduction to Design of Steel Structures
  - CE 495 - Senior Design in Civil Engineering (Structures track)
  - CE 805 - Advanced Design of Steel Structures - (Graduate course)
  - CE 808 - Structural Fire Engineering - (Graduate course)
  - Honors research seminar – (Undergraduate – Honors College; Fall'07)
  - Guest lectures (on various topics) – EGR100, MSE101, MSE200, MSE465, CE405, CE837
- Received excellent SIRS ratings in all courses.
- Developed 3 online courses (CE 805, CE 808 and CE 405) for the online MS degree.

## Administration, Leadership, & Service

- As *Chairperson* of the CEE department (2016-2019), contributed to planning and implementing various programs and initiatives aimed advancing the research, teaching and service missions of CEE department. Responsibilities included: curriculum development; facilitating research

## MSU-CEE Profile

- projects; recruitment, recruitment, mentoring, and evaluation of faculty, staff personnel, and undergraduate and graduate students; maintaining a hospitable environment, promoting and maintaining diversity and affirmative action programs; fund raising; budget preparation and administration of department financial affairs in accordance with University procedures.
- Worked with faculty, staff and administration to steer through ABET process for securing accreditation to CE and ENE programs of CEE department.
  - Worked with college and university development team in fundraising activities.
  - As *Associate Chairperson* of the “CEE department”, managed graduate program (recruiting students, evaluating applications for admissions and fellowships, overseeing quality) in the Dept. of Civil & Environmental Engineering. Also, assisted Department Chair on issues relating to Dept. of Civil & Env. Engineering administration.
  - As founding *Director* of “SAFE-D Center”, directed the activities of SAFE-D center, including securing research funds (projects), developing unique test facilities, recruiting and supervising personnel, and undertaking structural fire research.
  - As faculty member, participated in various “department/college (university) administrative committees”, search committees, and other professional committee activities, and initiated research collaborations with national and international organizations.
  - Participated in two-day **leadership seminar** sponsored by the *Big Ten Academic Alliance for Department Executive Officers (DEO)* – October 25-27, 2018
  - MSU-Department of Civil and Environmental Engineering, offers ABET accredited BS degree in CE and ENE programs at the undergraduate level, as well as MS and PhD degrees in various sub-disciplines of CE and ENE. CEE department has 26 tenure stream and two fixed-term faculty, three specialists and 13 permanent support staff, and hosts 493 undergraduate and 135 graduate students (figures as of May 2017). Annual research expenditure of the department in 2017 was \$8.5 million. 100 BS (CE and ENE), 30 MS and 11 PhD degrees were awarded in 2017. As per US News and World Report ranking of graduate programs in 2017: CE and ENE are ranked 36<sup>th</sup> and 54<sup>th</sup> amongst 159 CE and 109 ENE programs surveyed.

	<b>Adjunct and Visiting Professorship Appointments</b>	
2024- Present	<b>Distinguished Visiting Professor</b>	<i>Indian Institute of Tech.-Bombay, India</i>
2024- Present	<b>Distinguished Invited Visiting Professor</b>	<sup>5</sup> EWHA Woman’s University, Seoul, South Korea.
2021- Present	<b>VAJRA Adjunct Faculty</b>	<sup>4</sup> <i>Indian Institute of Technology (IIT) Delhi.</i>
2021- 2024	<b>INFOSYS Visiting Chair Professor</b>	<sup>3</sup> <i>Indian Institute of Science, Bangalore, India</i>
2008- Present	<b>Adjunct Professor</b>	<sup>2</sup> <i>University of Waterloo, Waterloo, Canada</i>
1999-2008 Research	<b>Adjunct Professor</b>	<sup>1</sup> <i>Queen’s University, Kingston, Canada</i>
	<ul style="list-style-type: none"> <li>• <sup>5</sup>As Distinguished Visiting Professor collaborating with faculty in the Department of Architectural and Urban Systems Engineering for developing MSU-EWHA WU joint research projects and publications.</li> <li>• <sup>4</sup>As co-Principal investigator of SERB-GOI “VAJRA Faculty Award”, collaborating on research with IIT-Delhi faculty (Prof. Matsagar) and also co-advising Ph.D. students.</li> <li>• <sup>3</sup>As “INFOSYS Visiting Chair Professor” collaborating of research with IISC faculty (Profs. Rama Swamy and Manohar) and co-advising Ph.D. student.</li> <li>• <sup>1</sup>As collaborative investigator of ISIS, initiated and carried out Queen’s (ISIS)-NRCC-Industry research project to develop fire design guidelines for FRP strengthened structural systems.</li> </ul>	

<b>Teaching</b>	<ul style="list-style-type: none"> <li>• <sup>1</sup>Co-advised 2 Ph.D. and 1 M.S students on ISIS-NRC-Industry funded projects</li> <li>• <sup>3</sup>Offered short course in fire safety/structural fireengineering</li> <li>• <sup>1,2</sup>Taught graduate/undergraduate courses in civil/structural engineering: <ul style="list-style-type: none"> <li><sup>1</sup>CE 336: Design of Concrete and Steel Structures - (Undergraduate)</li> <li><sup>1</sup>CE 436: Prestressed Concrete - (Senior Undergraduate/graduate).</li> <li><sup>2</sup>ME 720: Fire Resistance - (Graduate).</li> </ul> </li> </ul>
<b>1994-2005 Research</b>	<p><b>Senior Research Officer</b> <i>IRC, National Research Council (NRCC), Canada</i></p> <ul style="list-style-type: none"> <li>• Initiated and carried out industry supported research projects for evaluating fire resistance of structural systems through advanced experimental techniques and numerical modeling. Research projects included: high strength concrete, composite columns, shear walls, FRP structural systems, &amp; modeling of 3-D frames using FEM.</li> <li>• Developed computer programs (using FDM and FEM) and innovative design approaches for evaluating fire resistance of various structural systems.</li> <li>• Worked closely with wood, steel, concrete &amp; FRP industries, national and international organizations, to develop innovative and cost-effective fire-specifications for including in codes &amp; standards. Established collaboration between NRCC and national and international organizations.</li> <li>• Guided (Co-advised) 4 Ph.D., 4 M.S., 3 research scholars and 7 under graduate research interns</li> </ul>
<b>Administration/ Service</b>	<ul style="list-style-type: none"> <li>• Developed and marketed research projects valued at more than \$3.5 million to various industries and agencies. Served as project manager for planning, administering &amp; directing research, as well as supervising employees, PDF's, graduate, co-op and summer students.</li> <li>• Prepared annual planning documents, performance reports, budget reports and served on various administrative committees.</li> <li>• Participated in professional and technical committee activities, and initiated research collaborations with national and international organizations.</li> <li>• As member of the "FEMA/ASCE WTC building investigation experts team": collected significant amount of data from Ground Zero and salvage yards (immediately after the disaster), established factors that led to collapse of the WTC, defined research needs arising from the disaster, co-authored the FEMA report submitted to the US Congress, delivered media interviews and keynote presentations at major international workshops (NIST, NAS/NSF, AISC), and taught PD courses.</li> </ul>
<b>1993-1994</b>	<p><b>Research Associate</b> <i>Royal Military College, Kingston, Canada</i></p> <ul style="list-style-type: none"> <li>• Developed practical guidelines, through finite element structural analysis, for seismic design and analysis of masonry infilled frames</li> <li>• Involved in research &amp; development work, as well as in managing projects</li> </ul>
<b>1992-1993</b>	<p><b>Design Engineer</b> <i>Queen's University, Kingston, Canada</i></p> <ul style="list-style-type: none"> <li>• Performed non-linear design and analysis of prestressed concrete structures, and</li> <li>• structural analysis for crash-worthiness of locomotive frames using finite element programs SCADA, and PFRAME (for CIGGT)</li> </ul>
<b>1986-1992</b>	<p><b>Research and Teaching Assistant</b> <i>Queen's University, Kingston, Canada</i></p> <ul style="list-style-type: none"> <li>• Performed experimental and analytical research in concrete and steel structures</li> <li>• Taught/tutored various civil engineering courses</li> <li>• Developed and upgraded a number of structural software packages for teaching civil engineering courses.</li> <li>• Developed computer programs (software) for non-linear finite element analysis of prestressed concrete (PC) structures, and for time dependent effects in PC beams.</li> </ul>

<b>1985-1986</b>	<b>Research Fellow</b> <i>National Aeronautical Laboratory, Bangalore, India</i> <ul style="list-style-type: none"> <li>Performed structural analysis of an aircraft structure, &amp; managed research projects</li> </ul>	
<b>Awards &amp; Honors</b>	<ul style="list-style-type: none"> <li>Elected <i>Fellow</i> of <i>National Academy of Science, India</i> 2025</li> <li>Appointed as <i>Chairperson</i> of ,Steering Committee of "<i>Structures in Fire</i>" 2024-</li> <li>Felicitated for 'contributions to the field of concrete technology and structural/fire engineering' at the <i>Third International Conference on Advances in Concrete, Structural, and Geotechnical Engineering (ACSGE - 2024)</i> held at BITS-Pilani, India, 2024</li> <li>Appointments as <i>Distinguished Visiting/Adjunct Professor</i> at the Indian Institute of Tech.-Bombay and EWha Woman's University, South Korea 2024</li> <li>Elected <i>Fellow</i> of Academy of Science of <i>Royal Society of Canada</i> 2023</li> <li>Appointments as <i>Adjunct Professor</i> at U. of Waterloo, Canada; 2022</li> <li>Appointments as <i>Adjunct Visiting Professor</i> at IIT-Delhi 2022</li> <li><i>VAJRA Faculty Award</i> for collaborative research, Dept. of Science and Technology (DST), Govt. of India, 2021</li> <li>2021 <i>Withrow Global Leadership Award</i> MSU (College of Engg). 2021</li> <li><i>Fulbright Specialist Award</i> Fulbright Specialist Program at World Learning 2021</li> <li>The 'Charles C. Zollman Award' for "the best state-of-the-art precast and prestressed concrete paper" in <i>Prestressed Concrete Institute Journal</i> PCI 2020</li> <li>Elected "<i>Fellow</i>" of Society of Fire Protection Engineers SFPE 2020</li> <li>Appointed as "<i>INFOSYS Visiting Chair Professor</i>" at the Indian Institute of Science, Bangalore, India. IISC 2020</li> <li>2020 <i>Withrow Distinguished Scholar (Senior) Award</i> MSU (College of Engg). 2020</li> <li>Zhang G and Kodur V.K.R. - "<i>Outstanding Paper Award</i>" - 6<sup>th</sup> Int. Conf. Applications in Structural Fire Engg., Singapore, 2019</li> <li>Felicitated for 'contributions to the field of concrete technology and structural/fire engineering' through organizing " <i>Gettu-Kodur International Symposium on Advances in Science &amp; Technology of Concrete</i>" - India Chapter of American Concrete Institute, 2018</li> <li>Kodur and Naser - "<i>Literati Award for Best Research Paper</i>" Emerald Publishers 2018</li> <li>Awarded "<i>University Distinguished Professor</i>" rank MSU 2017</li> <li>Selected for "<i>MSU President's report</i>" MSU 2016</li> <li>Elected "<i>Fellow</i>" of Structural Engineering Institute SEI (ASCE) 2013</li> <li>Elected "<i>Foreign Fellow</i>" of Indian National Academy of Engg. INAE 2012</li> <li><i>University Distinguished Faculty Award</i> MSU 2011</li> <li>Outstanding Achievement Award for "<i>External Partnership</i>" NRCC 2010</li> <li>Elected "<i>Chapter Honor Member</i>" of Chi Epsilon Society Chi Ep. Society 2010</li> <li>Elected "<i>Fellow</i>" of Canadian Academy of Engineering CAE 2009</li> <li>Am. Inst. of Steel Construction "<i>Faculty Fellowship</i>" Award AISC 2007</li> <li>Elected "<i>Fellow</i>" of 'Am. Concrete Institute ACI 2007</li> <li>Nomination to "EPSRC (UK) Peer Review College" EPSRC 2006, 2010</li> <li>Elected "<i>Fellow</i>" of 'Am. Society of Civil Engineers' ASCE 2005</li> <li>NRCC "<i>Outstanding Public Awareness Award</i>" NRCC 2003</li> <li>"<i>The Lorne W Gold Best Publication (Research Paper)</i>" Award NRCC 2002</li> <li>IRCC "<i>Best Public Awareness Award</i>" IRC/NRCC 2002</li> <li>Outstanding Achievement Award for "<i>Best Research Project</i>" NRCC 2000</li> <li>"<i>George Sedan Award for Innovative Solutions</i>" NRCC 1998</li> <li>"<i>NATO Award for Collaborative Research</i>" NATO 1996</li> <li>"<i>Best Teaching Assistant Award</i>" Queen's University 1991</li> </ul>	
<b>Professional Appointments,</b>	<ul style="list-style-type: none"> <li><i>Associate Editor-in-Chief</i>, Journal of Advances in Bridge Engineering 20025-</li> <li><i>Chairperson</i>, Steering Committee, "<i>Structures in Fire</i>" (SIF) 2 024-</li> </ul>	

## Affiliations and Activities

- Invited to serve on *external review committee* of the department of Fire Protection Engineering” at the *Univ. of Maryland* 2024-
- Invited to serve on *external departmental advisory committee* of the “Civil Engineering department” at the *IIT-Hyderabad (India)* 2023
- Member, Fib working group for the post-fire assessment of concrete structures. FIB, 2019-
- Editorial Board, Transactions of the Indian National Academy of Engineering 2022
- Editorial Panel of Institute of Civil Engineers’ international journal - Structures and Buildings 2020-
- Editorial Board Member, Journal of Advances in Bridge Engineering 2020-2025
- Editorial Board Member, PSU Research Review Journal 2016-
- Editorial Board Member, Journal of Engineering Structures, 2015-2021
- Editorial Board Member, Cement and Concrete Composites Journal, 2009-
- Editorial Board Member, J of Modeling in Mechanics and Materials, 2015-
- Editorial Board Member, J. of Fire Science Reviews 2013-
- Editorial Board Member, International Journal of Material Science 2011-
- Associate Editor, Journal of Structural Fire Engineering 2009-
- Editorial Board Member: International Journal of Steel Structures 2007-2010
- Editorial Board Member: Journal of Disaster Advances 2008-
- Member, AISI/AISC (TC 8) Fire Committee 2011-2019
- Member, ASCE Infrastructure Policy Committee 2009-2013
- Guest Editor: Int. Journal of Steel Structures 2007
- Steering Committee, "Structures in Fire" (SIF) 2006-
- Associate Editor, ASCE Journal of Structural Engineering 2003-
- Guest Editor: Cement & Concrete Composites Journal 2004
- "EPSRC (UK) Peer Review College" 2006-2014
- Invited to be assessor with the Australian Research Council (ARC) 2013-
- Adjunct Professor *University of Waterloo* 2008-
- Adjunct Professor *Queen’s University* 1999-2012
- Adjunct Professor *Carleton University* 2004-2007
- Past Chairman, ASCE Committee on Fire Protection 2003-2007
- Member, ASCE Infrastructure Research Policy Committee 2010-2013
- Chairman, ACI-TMS Committee 216- Fire Protection of Structures 2006-2014
- Past Secretary, ACI-MS Committee 216-Fire Protection of Structures 2003-2006
- Member, ACI Committee 544 (Fiber Reinforced Concrete) 2004-
- Ac. Member, Committee 440 (Fiber Reinforced Polymers) 2004-
- Member; SFPE Standards Com. - Calculating Fire Exposures to Structures 2005-
- Chairman; Standards Committee -ASCE 29–Structural Design for Fire Conditions 2008-
- Registered Professional Engineer; PEO, Ontario, Canada 1993-
- Member; Canadian Society of Civil Engineers; American Concrete Institute; American Society of Civil Engineering
- Actively participating in Technical Committees & Standards development: ASTM-E119 TG 5 TC; CSA S806 "FRP Structural Components for Buildings".
- Served on Scientific/Advisory Committees of numerous Int. Conferences
- Organized (as Chair) number of international scientific conferences and workshops held at various locations around the world.
- Reviewed major research proposals & publications for journals & conferences

## Professional Development (PD)

- SPARC Short Course - “Stability of thin-walled structures”– A series of Lectures”; as part of SPARC Project on “Structural Instability Analysis of Thin-Walled Steel Structures

<b>Courses Developed/Taught</b>	<p>Under Fire-Induced Thermo-Mechanical Loading”, Indian Institute of Technology-Bhubaneswar, India, September 13-28, 2025.</p> <ul style="list-style-type: none"> <li>• American University of Sharjah, UAE – "The First Symposium and Workshop on Recent Advances in Fire and Life Safety ", April 9-10, 2025.</li> <li>• SPARC Short Course - “Structural Fire Engineering”– A series of Lectures”; as part of SPARC Project on “Structural Instability Analysis of Thin-Walled Steel Structures Under Fire-Induced Thermo-Mechanical Loading”, Indian Institute of Technology-Bhubaneswar, India, July 8-22, 2024.</li> <li>• Centre for Continuing Education (IISc): “Short course on Structural Fire Engineering”, for NIT faculty based on Capacity Building Commission (India) recommendations, <i>Indian Institute of Science</i>, Bangalore, India, May 22-26, 2023.</li> <li>• <i>Fulbright Specialist</i>: “Virtual Workshop on Advanced Analysis and Design of Steel Structures”. Birla Institute of Technology and Science (BITS), Pilani, Dec.. 13-15, 2022.</li> <li>• <i>EPIC Canada</i>: Short Course "Structural Fire Engineering”, Virtual Course, Sept. 22-23, 2022.</li> <li>• <i>Global Initiative for Academic Networks (GIAN) Programme, India</i>: "Analysis and Design of Structures in Fire (ADSF-2017)", National Institute of Technology, Jamshedpur, India - October 9-13, 2017.</li> <li>• Building and Construction Authority Academy, Singapore – "Structural Fire Engineering of Reinforced Concrete and Timber Structures", July 11-12, 2017; 2018</li> <li>• Qatar University and Civil Defense, Doha, Qatar– "Workshop on Designing Structures for Fire Safety", Nov. 4, 2019.</li> <li>• <i>Global Initiative for Academic Networks (GIAN) Programme, India</i>: “Behavior and Design of Structural Systems in Extreme Thermal Loading Conditions including Fire” , Indian Institute of Technology, Hyderabad, India - July 11-22, 2016.</li> <li>• Indian Institute of Technology, Gandhi Nagar, India - "Workshop on structural fire safety", Dec. 5-6 2014; Jan. 5-6, 2017.</li> <li>• Nanyang Technological University, Singapore – "Fire design provisions in EC3 Part 1.2 and EC4 Part 1.2 for steel and composite structures", July 5-6 2012, June 16-17 2014, Sept. 23-24 2015; Sept. 16-17, 2016; June10-11, 2019</li> <li>• Indian Institute of Technology, Gandhi Nagar, India - "Workshop on fire safety", March 2-3, 2013.</li> <li>• American University of Sharjah, UAE – "Workshop on fire resistance design of structures", Dec. 11-12, 2012; May 14-15 2014; March 14-15, 2016.</li> <li>• Qatar University, Doha, Qatar– "Workshop on fire resistance design of structures", March 7-8 2017.</li> <li>• ASCE (N. India Chapter &amp; IIT Delhi) – "Fire design of concrete and steel structures", Delhi, India, December 2011.</li> <li>• IIT Delhi – "Fire design of concrete and steel structures", Delhi, India, June 2010</li> <li>• SFPE –"Structural fire safety", San Diego, CA, Oct. 2005</li> <li>• ASCE – "Designing structures for fire safety", New York, NY, March 2003</li> <li>• CSCE – "Lessons learned from World Trade Center disaster", CSCE-NRC professional development course, 5 locations (St. Johns, NF; Montreal, QC; Toronto, ON; Winnipeg, MB; Vancouver, BC), Canada, Feb.-March 2003.</li> <li>• CSIRO – "Lessons for Australia from World Trade Center disaster", PD seminar, CSIRO, Sydney, Australia, Oct. 2003</li> <li>• ASCE – "Designing structures for fire safety", Baltimore, MD, Mar. 2003</li> <li>• ASCE – "Designing structures for fire safety", Chicago, Los Angeles, July 2002</li> </ul>
<b>University/Institute</b>	<ul style="list-style-type: none"> <li>• MSU – College Reappointment, Promotion, &amp; Tenure Committee 2023-2026</li> <li>• MSU –CEE Search Committee – Teaching Specialist 2022, 2023, 2024</li> </ul>

<b>Committees</b>	<ul style="list-style-type: none"> <li>• MSU –CEE P&amp; T Committee 2021-2022</li> <li>• MSU –Engg. Research &amp; Grad. Studies Council 2020, 2021</li> <li>• MSU - Chairperson Dept. of Civil &amp; Env. Engg. 2016-2019</li> <li>• MSU – Associate Chairperson for Grad. Studies Dept. of Civil &amp; Env. Engg. 2016-2019</li> <li>• MSU – College Reappointment, Promotion, &amp; Tenure Committee 2013-2016</li> <li>• MSU – CEE: Dept. Under-Graduate Curriculum Committee 2012</li> <li>• MSU– CEE: Department Chair search committee 2011-2012, 2020-2021</li> <li>• MSU – CEE Promotion and Tenure Committee 2010, 2012, 2013, 2020, 2021</li> <li>• Mentoring two CEE faculty in advancing their research career 2009, 2010, 2011</li> <li>• MSU – Engg. Research Council 2009 (Chair), 2010</li> <li>• MSU –Engg. Research &amp; Grad. Studies Council 2006, 2007 &amp; 2008 (Chair)</li> <li>• MSU – CEE Dept. Graduate Studies Committee 2006, 2007, 2008 (Chair), 2014, 2015</li> <li>• MSU – CEE Dept. Under-Graduate Curriculum Committee 2008, 2009</li> <li>• MSU – CEE Dept. Advisory Committee 2008, 2009, 2013, 2014</li> <li>• MSU CEE –Faculty search committee 2007-2008 (Chair), 2012, 2020-21</li> <li>• MSU Mech. Engg. - Faculty search committee 2005-2006</li> <li>• NRCC – IRC Awards Committee 1999-2005</li> <li>• NRCC – IRC Newsletter Coordinator 1996-1997</li> </ul>
<b>Academic /Code External Assessment &amp; Review Committees</b>	<ul style="list-style-type: none"> <li>• <i>External Review/Department Advisory Committees</i> of the Civil Engineering Department at the Indian Institute of Technology-Hyderabad (India). 2023, 2025</li> <li>• <i>External review/advisory committees</i> of the Fire Protection Engineering Departments at the University of Maryland, MD. 2024</li> <li>• Headed Assessment Panel for Review of “Fire” Proposals for IC-IMPACTS Sept. 2018</li> <li>• Assessment as part of External Advisory Board to RISCO (Aveiro Research Centre of Risks and Sustainability in Construction), Aveiro University, Portugal; 11-12 January 2018</li> <li>• National Science Foundation Review (including ERC) Panels 2005, 2006, 2007, 2008, 2020, 2021</li> <li>• Promotion and Tenure Assessment of faculty at various international universities 2005-2024</li> <li>• PhD Committees (and as external examiner) of numerous students within and outside of MSU (see detailed list below). 1999-Current</li> <li>• Collaborative Investigator, ISIS (Centers of Excellence), Canada 2001–2006</li> <li>• Research Proposal Review Panels – Hong Kong, Belgium, Singapore, UK Research Council, DoD, NSERC (Canada), IC-IMPACTS (Canada), Switzerland, Oman, Netherlands, Saudi Arabia (AAAS), Kazakhstan 2001-Current</li> <li>• SCC panels for technical assessment of laboratories in North America 1998-2002</li> </ul>
<b>International Conference Committees</b>	<p><b>2026</b></p> <ul style="list-style-type: none"> <li>• <b>SIF'26</b> – 14<sup>th</sup> International Conference on Structures in Fire (SiF'26), Kingston, Canada, , May 19-21, 2026, <i>Steering Committee (Chair)</i> and <i>Scientific Committee (member)</i>.</li> <li>• <b>SEC 2026</b>- 15<sup>th</sup> Structural Engineering Convention, IIT-H, Hyderabad, India, Dec. 20-23 2026, International Advisory committee (Member).</li> <li>• <b>CIVILENG2026</b> - 3<sup>rd</sup> International Conference on Innovation in Civil, Structural and Environmental Engineering, Dubai, UAE, October 21-23, 2026, Distinguished Scientific Committee Member.</li> </ul> <p><b>2025</b></p> <ul style="list-style-type: none"> <li>• <b>ACECON 2025</b> - 6th Asian Conference on Ecstasy in Concrete, Indian Concrete Institute, Dec. 8-10, 2025, Hyderabad, India. <i>Advisor Committee (Member)</i>.</li> <li>• <b>ICCEIA 2025</b> - 2nd International Conference on Civil Engineering: Innovations &amp; Advancements, Paris, France, August 21-23, 2025. <i>Scientific Committee (Member)</i>.</li> </ul>



- CARRS-2025 - International conference on "Condition Assessment, Rehabilitation and Retrofitting of Structures, Roorkee (IIT), India, Dec. 11-13, 2025, *Scientific Committee (Member)*.
- IFireSS 2025 – 5<sup>th</sup> International Fire Safety Symposium, Ulster University, Belfast, Ireland, June 25-27, 2025, *Co-Chair (Scientific Committee)*.
- 2025 ASCE Engineering Mechanics Institute Conference; *Co-organized a Special Session on “Nonmetallic Reinforcements for Sustainable and Resilient Concrete Structures under Extreme Loading”*, Anaheim, CA, May 27-30 2025 (Session organizers: Profs. Matsagar, Kodur, and Banthia)
- CIVILFORUM 2025 - World Forum & Expo on Civil, Structural, and Environmental Engineering, Kuala Lumpur, Malaysia, March 10-12, 2025 - Organizing Committee (Member)
- CTCS 2025 – “Civil Engineering Trends and Challenges for Sustainability”-. NMAM Institute of Technology Nitte, Udupi, Karnataka, India 6-7 Feb. 2025. - International Advisory committee (Member) .

## 2024

- SEC - 14<sup>th</sup> Structural Engineering Convention, NIT, Trichy, India, Dec. 07-09 2024, International Advisory committee (Member).
- SIF'24 – Thirteenth International Conference on Structures in Fire (SiF'22), Coimbra, Portugal, June 21-23 2024, *Steering and Scientific Committee (Track Leader)*.
- 4th R. N. Raikar Memorial International Conference & Ghosh-Mukherjee International Symposium on Advances in Science & Technology Concrete, Mumbai, India, Dec. 12-14, 2024 – Co-organized a Special Session on “Nonmetallic Reinforcements for Concrete Structure” for *NEx-American Concrete Institute*.
- Wood & Fire Safety Conference, Tatras, Slovakia., May 12-15, 2024, *Scientific Committee (Member)*.
- 2024 fib Symposium “Resilient Concrete Structures” –Christchurch, New Zealand, 11<sup>th</sup> to 13<sup>th</sup> November 2024, *Scientific Committee (Member)*.
- CONSEC'24 - 10<sup>th</sup> International Conference on Concrete under Severe Conditions, September 25-27, 2024, Chennai, India (CONSEC24).
- ASFE'24 – Eighth International Conference Applications in Structural Fire Engineering, Nanyang Technological University, Guangxi University, Nanning, China, February 25-27 2024, *Scientific Committee (Member)*.
- BEFIB – XI International Symposium on Fiber Reinforced Concrete, Dresden, Germany, Sept. 15-18, 2024, *Scientific Committee (Member)*
- ICSECT'23– 9th International Conference on Structural Engineering and Concrete Technology, London, UK, April 2024, *Scientific Committee (Member)*.
- ACSGE-2024- Third International Conference on Advances in Concrete, Structural and Geotechnical Engineering, BITS Pilani, India, Feb. 26-28, 2018, Advisory Committee (Member)
- PROTECT 2024 – 9th International Colloquium on Performance, Protection & Strengthening of Structures Under Extreme Loading & Events, Singapore, 14-16 August 2024, *Co-Chair (Scientific Committee)*.

## 2023

- SEC - 13<sup>th</sup> Structural Engineering Convention, VNIT, Nagpur, India, Dec. 07-09 2023, International Advisory committee (Member).

- ICACA – 2023 – International Conference on Advances in Civil Engineering and Architecture, Tumkur, India, 15<sup>th</sup> -16<sup>th</sup> September 2023, *Scientific Committee (Member)*.
- 4<sup>th</sup> ECCOMAS Thematic Conference CORASS 2023 – 4<sup>th</sup> International Conference on Recent Advances in Design, Resilience and Strengthening of Structures, University of Coimbra, Coimbra, Portugal, October 16-18 2023,
- ICSECT'23– 8th International Conference on Structural Engineering and Concrete Technology, Lisbon, Portugal, March 29-31 2023, *Scientific Committee (Member)*.
- ICEFORUM2023 - International Forum on Infrastructure and Civil Engineering, Porto, Portugal Feb. 06-08, 2023, *Member, Organizing Committee*.
- IFireSS 2023 – 4<sup>th</sup> International Fire Safety Symposium, Rio de Janeiro, Brazil, June 21-23, 2023, *Co-Chair (Scientific Committee)*.
- CARRS-2023, - International conference on "Condition Assessment, Rehabilitation and Retrofitting of Structures (**CARRS-2023**)", Hyderabad, India, Dec. 10-13, 2024, *Scientific Committee (Member)*.

## 2022

- SFPE 2022 Annual Conference & Expo – Detroit, Society of Fire Protection Engineers, October 12-14 2022, Detroit, MI, Member, Program Committee.
- Workshop on Bio-Based Fiber Reinforced Polymer Composites for Civil Engineering Infrastructure, BITS Pilani, India, March 4, 2022, *Workshop Co-Ordinator*.
- ICSECT'22– 5th International Conference on Structural Engineering and Concrete Technology, Lisbon, Portugal, April 13-15 2022, *Scientific Committee (Member)*.
- SIF'22 – Twelfth International Conference on Structures in Fire (SiF'22), Hong Kong, Nov 30-Dec. 22 2022, *Scientific Committee (Track Leader)*.
- SEC- 12<sup>th</sup> Structural Engineering Convention, Malaviya National Institute of Technology, Jaipur, India, Dec. 19-22, 2022, *International Advisory committee (Member)*.
- *Workshop on FRP Materials and Sustainable Structures (Hybrid Meeting)*, BITS Pilani, India, March 4, 2022 *Workshop Co-Ordinator (part of Partnership 2020 project)*.
- “Virtual Workshop on Advanced Analysis and Design of Steel Structures”. Birla Institute of Technology and Science (BITS), Pilani, Dec.. 13-15, 2022, *Workshop Co-Ordinator (part of Fulbright Specialist Award)*.

## 2021

- Indo-US Symposium for Enhancing Fire Safety in Built-Infrastructure Indian Institute of Technology (IIT) Delhi, India, October 18, 2021, *Workshop Co-Ordinator*.
- Stakeholders Meeting on Fire-Resistance Guidelines for Hybrid Fiber-Reinforced Polymer Structural Components, Indian Institute of Technology (IIT) Delhi, India, October 18, 2021, *Co-Ordinator*.
- Workshop on Bio-Based Fiber Reinforced Polymer Composites for Civil Engineering Infrastructure, (Virtual Meeting), BITS Pilani, India, July 29, 2021, *Workshop Co-Ordinator*.
- “Global Summit on Civil, Architectural and Environmental Engineering (GSCAEE-2021)” Barcelona, Spain, July 19-21, 2021, Conference Chair and Organizing Committee (Member).
- ERCAM 2021-NMIT, Nitte Meenakshi Institute of Technology, Bengaluru, India, December 16-17 2021 *Advisory Committee (Member)*
- CIGOS - the International Conference series on Geotechnics, Civil Engineering Works and Structures, Ha Long city, Vietnam on October 28 to 29, 2021, *International Scientific Committee (Member)*.
- ASFE'21 – Seventh International Conference Applications in Structural Fire Engineering, Ljubljana, Slovenia, 9th-11th June 2021, *Scientific Committee (Member)*.

- CARRS-2020, - International conference on "Condition Assessment, Rehabilitation and Retrofitting of Structures (*CARRS-2021*)", Hyderabad, India, Dec. XX-XX, 2021, *Scientific Committee (Member)*.
- ICSECT'21– 5th International Conference on Structural Engineering and Concrete Technology, Lisbon, Portugal, 21-23 June 2021, *Scientific Committee (Member)*
- ISSS-2021 - The 11th International Symposium on Steel Structures, Jeju, Korea, Nov. 3-6, 2021, *Scientific Committee (Member)*
- CCIX-2021 - 9<sup>th</sup> International Symposium on Composite Construction in Steel and Concrete, Stromberg, Germany, July 27-29, 2021, *Scientific Committee (Member)*

## 2020

- International Online Conference and Exhibition India Construction Week –2020 “Reviving Construction Industry in Post COVID World”, India, Dec. 2-5, 2020, Member (steering committee).
- Global Congress on Surfaces, Coatings and Films, Istanbul, Turkey, December 17- 18, 2020, Organizing Committee (Member).
- SIF'20 – Eleventh International Conference on Structures in Fire (SiF'20), University of Queensland, Brisbane, Australia, June 24-26 2020, *Scientific Committee (Track Leader)*.
- CICE 2020 – 10<sup>th</sup> International Conference on Fibre-Reinforced Polymer Composites in Civil Engineering, Istanbul, Turkey July 1-3, 2020, *Scientific Committee (Member)*
- *International Conference on “Cement-based materials tailored for a Sustainable Future”*, Istanbul, Turkey May 7-8, 2020, *Scientific Committee (Member)*.

## 2019

- ASFE'19 – Sixth International Conference Applications in Structural Fire Engineering, Nanyang Technological University, Singapore from 13th-14th June 2019, *Scientific Committee (Member)*
- PROTECT 2019 – 7th International Colloquium on Performance, Protection & Strengthening of Structures under Extreme Loading, Vancouver, Canada, Sept. 16-18, 2019, *Scientific Committee (Co-Chair)*
- ISSS-2019 - The 10th International Symposium on Steel Structures, Jeju, Korea, Nov. 2021, *Scientific Committee (Member)*
- IFireSS 2019 – 3rd International Fire Safety Symposium, Ottawa, Canada, June 5-7, 2019, *Scientific Committee (Member)*
- ICSENM'19 - 4th International Conference on Structural Engineering, New Technology and Methods held in Rome, Italy, April 7-9, 2019, *Scientific Committee (Member)*
- Third Fire Safety of Facades Conference Paris, France, in September 2019
- CONSEC'19 - 9<sup>th</sup> International Conference on Concrete under Severe Conditions, Unisinos University - Porto Alegre, Brazil, 2019, International Scientific Committee

## 2018

- 3rd R. N. Raikar Memorial International Conference and 'Gettu - Kodur' International Symposium on 'Advances in Science & Technology of Concrete', 14th & 15th Dec. 2018; Advisory committee
- SIF'18 – Tenth International Conference on Structures in Fire (SiF'18), Ulster University, Belfast, UK, June 6-8 2018, *Scientific Committee (Track Leader)*.
- CiCE 2016 – 9<sup>th</sup> International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering, Paris, France, 2018, Scientific Committee.
- ICSENM'18 – 3rd International Conference on Structural Engineering, New Technology and Methods, Budapest, Hungary in April 8 - 10, 2018, *Scientific Committee (Member)*
- NHICE-01 - 1st International Conference on New Horizons in Green Civil Engineering

Victoria, British Columbia, Canada, April 25 – 27, 2018, *Scientific Committee (Member)*

- IFireSS 2017 - 2nd International Fire Safety Symposium, Naples, Italy, June 7-9, 2017, *Scientific Committee (Member)*
- ACSGE-2018- Second International Conference on Advances in Concrete, Structural and Geotechnical Engineering, BITS Pilani, India, Feb. 26-28, 2018, Advisory Committee (Member)
- ASCCS 2018 - 12th international conference on 'Advances in Steel-Concrete Composite Structures', Valencia, Spain, June 27-29<sup>th</sup> 2018, *Scientific Committee (Member)*

## **2017**

- PROTECT 2017 – 6th International Workshop on Performance, Protection & Strengthening of Structures under Extreme Loading, Guangzhou, China, Dec. 10-12, 2017, *Scientific Committee (Member)*
- IFireSS 2017 - 2nd International Fire Safety Symposium, Naples, Italy, June 7-9, 2017, *Scientific Committee (Member)*
- ICSENM'17 - International conference on Structural Engineering, New Technology and Methods, Barcelona, Spain, April 3 - 4, 2017. *Scientific Committee.*
- ASFE'17 – Fifth Applications in Structural Fire Engineering Conference, University of Manchester, UK on 7-8<sup>th</sup> September 2017, *Scientific Committee (Member)*

## **2016**

- CiCE 2016 – 8<sup>th</sup> International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering, Hong Kong, Dec. 14-16 2016, Scientific Committee.
- SIF'16 – Ninth International Conference: Structures in Fire (SiF'16), Princeton, USA, June 8-10 2016, Scientific Committee (*Chair*).
- BEFIB 2016 - 9th RILEM International Symposium on Fiber Reinforced Concrete, Vancouver, BC, Canada, September 19-21, 2016, Technical Committee (member)
- CONSEC'16 - 8<sup>th</sup> International Conference on Concrete under Severe Conditions, Politecnico di Milano in Lecco campus, Italy, 2016, International Scientific Committee.
- ICSENM'16 - International conference on Structural Engineering, New Technology and Methods, Prague, Czech Republic, March 30 – 31, 2016. Scientific Committee.
- ACMBS-VII - 7th International Conference on Advanced Composite Materials in Bridges and Structures, Member, International Scientific Committee, Vancouver, BC, Canada, August 22-24, 2016

## **2015**

- PLSE 2015 - Second International Conference on Performance-based and Life-cycle Structural Engineering, Brisbane, Australia, 9-11 Dec. 2015: International Scientific Committee (*Member*).
- Steel Structures-2015 – "World Congress and Exhibition on Construction and Steel Structure", Dubai, UAE, Nov. 16-18, 2015, Organizing Committee Member.
- ASFE'15 - Applications in Structural Fire Engineering Conference, Dubrovnik, Croatia, 15-16 October 201, Scientific Committee (*Member*)
- ASCCS 2015 – 11<sup>th</sup> international conference on "Advances in Steel-Concrete Composite Structures" Tsinghua University, Beijing, China; International Scientific Committee.
- ISSS'15- 8<sup>th</sup> International Symposium on Steel Structures, Jeju, Korea, Nov. 5-7 2015, Scientific Committee (*Member*), Session Organizer.
- CONFAB 2015 - Structural Safety under Fire & Blast – Glasgow, UK, Sept. 2-4 2015.
- PROTECT2015 – 5th International Workshop on Performance, Protection & Strengthening of Structures under Extreme Loading, East Lansing, MI, June 29-30, 2015, *Chair*.
- IFireSS, International Fire Safety Symposium, COIMBRA, Portugal April 20-22 2015, Scientific Committee (member).

## **2014**

- IAFSS'2014 - 11<sup>th</sup> International Symposium on Fire Safety Science, Christ Church, New Zealand, Feb. 2014, Topic 5 Co-leader
- SIF'14 – Eighth International Conference: Structures in Fire (SiF'14), Shanghai, China, June 11-13 2014, Scientific Committee (*Chair*).
- ICMAE - First International Conference on Multi-hazard Approaches to Civil Infrastructure Engineering, Chicago, IL on June 26-27, 2014.

## 2013

- PSSC 2013 - 10<sup>th</sup> Pacific Structural Steel Conference, Singapore, 8-11 October 2013. International Scientific Committee.
- PROTECT2013 – 4<sup>th</sup> International Workshop on Performance, Protection & Strengthening of Structures under Extreme Loading, Mysore, India, August 2013, Technical Committee (*Member*).
- ISSS'13- 7<sup>th</sup> International Symposium on Steel Structures, Jeju, Korea, Nov. 6-8 2013, Scientific Committee (*Member*), Session Organizer
- Euro Fire Design 2013 - Applications in Structural Fire Engineering Conference, Prague, CZ, 18-20 April 2013, Scientific Committee (*Member*)
- CONSEC'13 - 7<sup>th</sup> International Conference on Concrete under Severe Conditions, Nanjing, China, 2013, International Scientific Committee.

## 2012

- First International Conference on Performance-based and Life-cycle Structural Engineering (PLSE 2012), Hong Kong China, Dec 5-7 2012, International Scientific Committee.
- SIF'12 – Seventh International Conference: Structures in Fire (SiF'12), Zurich, Switzerland, June 6-8 2012, *Track Leader*.
- ASCCS 2012 – 10<sup>th</sup> international conference on “Advances in Steel, Concrete, Composite and Hybrid Structures”, Singapore, July 2-4 2012, International Scientific Committee.
- STRESSA2012 – Behaviour of Steel Structures in Seismic Areas, *Santiago Chile*, 9-11 Jan., 2012.
- ACI Fall Convention, 2012, Dallas, TX, Organized two technical sessions
- BEFIB 2012 - *Eighth RILEM Symposium on fibre reinforced concrete - challenges and opportunities*, Guimarães, Portugal, 19-21 Sept. 2012.
- ACMBS-VI - 6<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures, Member, International Scientific Committee, Kingston, Ontario, Canada, May 23-25 2012

## 2011

- ISSS'2011 - International Symposium on Innovation & Sustainability in Civil Engineering, Xiamen, China, Oct.28-30, 2011, Scientific Committee.
- Euro Fire Design 2011 - Applications of Structural Fire Engineering Conference, Prague, CZ, 16-8 Feb 2011, Scientific Committee (*Member*)
- ISSS'11- 6<sup>th</sup> International Symposium on Steel Structures, Seoul, Korea, Nov. 12-14 2011, Scientific Committee (*Member*), Session Organizer
- 2<sup>nd</sup> International Workshop on Explosive Spalling (Advisory Committee), Delft University of Technology, Delft, NL, Oct. 2011
- PROTECT 2011 - 3<sup>rd</sup> International Workshop on Performance, Protection & Strengthening of Structures under Extreme Loading, Lugano, Switzerland, August 30th - Sept. 1st, 2011

## 2010

- SIF'10 - Sixth International Conference: Structures in Fire (SiF'10), East Lansing, MI, June 2-4, 2010, (Chair, Organizing Committee).
- ACI Fall Convention, 2010, Chicago, IL, Organized 1 technical session
- CONSEC'10 – 6<sup>th</sup> International Conference on Concrete under Severe Conditions, Merida,

- Yucatan, Mexico, June 7-9 2010, Technical Committee (*Member*).
- SDSS'Rio 2010 - International conference Stability and Ductility of Steel Structures, Rio de Janeiro, Brazil, Scientific Committee (*Member*).

## 2009

- US (NSF)-India (IUSTF) Workshop: Innovative Materials and Structural Systems for Resilient & Sustainable Built Infrastructure, IIT Bombay, India, Dec. 3-15, 2009, *Chair*
- PROTECT2009 – 2<sup>nd</sup> International Workshop on Performance, Protection & Strengthening of Structures under Extreme Loading, Hayama (Japan, August 2009, Technical Committee (*Member*).
- ACSGE-2009- First International Conference on Advances in Concrete, Structural and Geotechnical Engineering, BITS Pilani, India, October 25-27 2009, Advisory and Technical Committee (*Member*)
- ISSS'09- 5<sup>th</sup> International Symposium on Steel Structures, Seoul, Korea, March 12-14 2009, Scientific Committee (*Member*)
- Euro Fire Design 2009 - Applications of Structural Fire Engineering Conference, Prague, CZ, 18-20 Feb 2009, Scientific Committee (*Member*)

## 2008

- SIF'08 - Fifth International Conference: Structures in Fire (SiF'08), Singapore, May 28-30, Scientific Committee (*Chair*)
- 7th International RILEM Symposium on Fibre Reinforced Concrete, BEFIB 2008, 17-19 Sept. 2008, Chennai, India, Int. Scientific Committee (*Member*)
- ACMBS-V - 5th International Conference on Advanced Composite Materials in Bridges and Structures, Winnipeg, Manitoba, Canada, September 22-24, 2008, International Scientific Committee (*Member*).
- ACI Fall Convention, 2008, St. Louis, MO. Organizing 1 (special) technical session.
- ASCE Structures Congress, 2008, Vancouver, Canada. Organizing 1 technical session.

## 2007

- National Workshop on Structures and Fire, East Lansing, MI (*Chair*).
- PROTECT2007 – 1st International Workshop on Performance, Protection & Strengthening of Structures under Extreme Loading, Whistler, Canada, August 20-22, Technical Committee (*Member*).
- CONSEC'07 – 5th International Conference on Concrete under Severe Conditions, Lyon, France, Technical Committee (*Member*)
- ICSCS07 - International Conference on Steel and Composite Structures, Manchester, UK, Technical Committee (*Member*)
- ICASS 2007 - 5th International Conference on Advances in Steel Structures, 5-7 December, Singapore, Technical Committee (*Member*)
- ACI Spring Convention, Atlanta, GA Organized 1 (special) technical session.

## 2006

- SIF'06 - Fourth International Workshop: Structures in Fire (SiF'06), Aveiro, Portugal, May 10-12, Scientific Committee (*Member*)
- ISSS'06- 4<sup>th</sup> International Symposium on Steel Structures, Seoul, Korea, November 9-10 2006, Scientific Committee (*Member*)

## 2005

- ASCE Structures Congress 2005, St. Louis, MO, Organized 1 technical session.
- CIB Global Leaders Summit on Tall Buildings, Toronto, Canada, Scientific Committee (*Member*)
- 3rd Int. Conf. on Construction Materials: Performance, Innovations, and Structural Implications, ConMat'05, Vancouver, August 22-24, Technical Committee (*Member*)
- ASCE Structures Congress 2005, New York, NY, Organized 2 technical sessions

## 2004

- SIF'04 - Third International Workshop: Structures in Fire (SiF'04), May 10-12. Ottawa, Canada, Organizing Committee (Co-Chair), Scientific Committee (*Co-Chair*).
- CONSEC'04 – 4th International Conference on Concrete Under Severe Conditions, Seoul, Korea, Technical Committee (*Member*)
- CIB Global Leaders Summit on Tall Buildings, Toronto, Canada, Scientific Committee (*Member*)
- ASCE Structures Congress 2004, Nashville, TN, Organized 1 technical session.

#### **2003**

- CIB Global Leaders Summit on Tall Buildings, Kaula Lampur, Malaysia, 2003. Scientific Committee (*Member*)
- SFPE/ASCE Specialty Conference - "Designing Structures for Fire"; Scientific Committee (*Member*).
- ASCE Structures Congress 2003, Seattle, WA, Organized 1 technical session.

#### **2002**

- Second International Workshop: Structures in Fire, (SiF'02), Christchurch, New Zealand, Scientific Committee (*Member*)
- ASCE Structures Congress 2002, Denver, CO, Organized 1 technical session

#### **2001**

- ASCE Structures Congress 2001, Washington DC, Organized 6 technical sessions

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### **Contributions to Codes and Standards**

#### **2018-2024**

- Fire Resistance of Post-Tensioned Concrete Structures – Post-tensioning Manual, 2024.

#### **2018-2025**

- ACI 216.1- “Rational Fire Design of Concrete structures”, Task Group, ACI 2018-

#### **2019-2024**

- FIB working group for the post-fire assessment of concrete structures. FIB, 2019-

#### **2019-2025**

- ASCE/SEI/SFPE 29-13, "Standard Calculation Methods for Structural Fire Protection" - as Chairman.

#### **2018-2020**

- Post-Tensioning Institute, “PT Manual, 7th Edition, Chapter 18” – Authored the Chapter.

#### **2017, 2018**

- ASCE/SEI/SFPE 29-13, "Standard Calculation Methods for Structural Fire Protection" - as Chairman.

#### **2016**

- American Institute of Steel Construction (AISC) , "Steel Design Manual" - as Member of TC8 (Fire).

#### **2016**

- ACI 216.1M Standard (Metric Edition), "Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies", American Concrete Institute, 2016.

#### **2014**

- Chaired the committee and developed ACI 216.1 Standard , "Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies", American Concrete Institute, 2014.

#### **2010**

- SFPE 2010, "SFPE Standard on Calculating Fire Exposures to Structures" - as Member.

#### **2007**

- As Secretary and Chair of fire committee developed ACI 216.1 Standard, "Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies", ACI 2014.

#### **2005**

- ASCE/SEI/SFPE 29-05, "Standard Calculation Methods for Structural Fire Protection" - as Member.
- NBC 2005, "National Building Code of Canada" - Research support.
- 2004**
- Underwriter Laboratories of Canada (ULC S 101-04) – "Standard Methods of Fire Endurance Tests of Building Construction and Materials" - as Member.
- 2003**
- AISC, Steel Design Guide #19, Fire Resistance of Structural Steel Framing" – as Member.
- 2002**
- Canadian Standards Association (CSA S806-02) "Design and Construction of Building Components with Fiber-Reinforced Polymers" -- as Member.
- 1995**
- NBC 1995, "National Building Code of Canada" - Research support.

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#### **Collaborations**

- Established & led research collaborations with international research organizations: BRE (UK); Univ. of Liege, (Belgium); NCTU (Taiwan); MSE (UK); KPRI (Korea); IIT-Delhi (India); IISc (India); CBRI (India); City Univ. (Hong Kong), SCUT (China), Qatar University (Qatar); Clemson University; American Univ. of Sharjah (UAE), UNSW, Sydney (Australia); American University-Sharjah (UAE); Qatar University (Qatar); BITS-Pilani (India); IIT-Bhubaneswar (India).and IIT-Hyderabad (India).
- Developed highly effective research alliances with faculty members and scientists at Universities (UT-Austin, Purdue, Princeton, WPI, Florida Atlantic), NIST, as well as with industry (AISC, PCA, NEx-American Concrete Institute; CI, PCI, Structural Technologies Inc., Fyfe Co., Under Writer's Laboratories) to advance the state of the art in structural fire engineering. These alliances have resulted in new collaborative research projects
- Undertook funded joint research projects, during MSU career, with India, Pakistan, Netherlands, China, UAE, Hong Kong, Singapore and Qatar.
- Undertook joint research projects during NRCC (Canada) career with Centers of Excellence: Collaborative investigator – ISIS Canada; Collaborative investigator – Concrete Canada; ABRI and NCTU - Taiwan; Liege Univ – Belgium.

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#### **Extra Curricular Activities**

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|---|-----------|
| • President, Ottawa-Carleton Kannada Sangha; Editor, Kannada Vani | 1994-1995 |
| • President, Queen's Indian Students Association, Kingston        | 1991-1992 |
| • Exec. Member, India-Canada Association, Kingston                | 1987-1990 |
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**Funded Research Projects**  
**MSU Career**

Year	Source	Amount US \$	Project title/Purpose	*PI/CoPI
2025	NEx-ACI American Concrete Institute	\$114,000 + \$23,025	Fire resistance tests on IR FRP-RC beams	<b>Kodur</b> Naser
2024	Dept. of Science and Technology, Govt. of India	~ Rs 1.25 crores + cost share	Fire-Resistance of Bio-based FRP Composites; VAJRA Faculty Award for collaborative research with IIT-Delhi (Phase II)	<b>Matsagar</b> Kodur
2024	SERB (Govt. of India)	~\$60,000	SPARC - Structural stability analysis of thin-walled steel structures subjected to elevated temperature due to fire	S.K. Panda Kodur <b>et al.</b>
2023	SERB (Govt. of India)	~\$125,000	SPARC - Resilient Infrastructure: Multi-Hazard Protective Design of Basalt Fiber-Reinforced Polymer Composite Panels for Blast and Fire Resistance	<b>Matsagar</b> Banthia Kodur <b>et al.</b>
2023	NEx-ACI American Concrete Institute	\$162,800 + \$23,025	Strategies for Enhancing Fire Resistance of Polymer Concrete	<b>Kodur</b> Banerji
2022	Fulbright at World Learning (US State Dept.)		Fulbright Specialist Program visit to Birla Institute of Technology and Science for advancing research collaboration and technology transfer	<b>Kodur</b> Singh
2021	Dept. of Science and Technology, Govt. of India	~ Rs 1.25 crores + cost share	Fire-Resistance of Bio-based FRP Composites; VAJRA Faculty Award for collaborative research with IIT-Delhi	<b>Matsagar</b> Kodur
2020	U.S. Dept. of State – Partnership 2020	\$74,580 + cost share	Fire-Resistance Guidelines for Hybrid FRP Structural Components made of Cellulosic Fibers derived from Agricultural Waste	<b>Kodur</b> Matsagar Singh
2020	Indo-US Sci. &Tech. Forum	Rs 8 Lakhs + cost share	United States-India workshop on "Enhancing fire safety in built infrastructure"	<b>Matsagar</b> Kodur
2019	Prestressed Conc. Institute	\$40,000 + cost share	Design Solutions for Enhancing Fire Resistance of Ultra- High Performance Precast Concrete Members	Kodur
2018	Structural Technologies	\$15,120	Strength and bond properties of Carbon FRP	Kodur
2018	Australian Research Council - UNSW		ARC Training Centre in Fire Retardant Materials & Safety Technologies: Development of standardized fire tests for fire retardant materials	Yeoh Kodur and Various
2016, 2017	Structural Technologies	\$35,000	Evaluating fire resistance of FRP-strengthened reinforced concrete beams and slabs – Phase II	Kodur
2016	Qatar National Research Foundation	\$90,000 + cost share (Total project: ~\$750,000)	Guidelines for enhancing the performance of FRP- strengthened concrete beams under fire and harsh environment exposures	Alnuaimi Haweeleh Abdalla <b>Kodur</b>
2016	Prestressed Conc. Institute	\$35,000	An approach for PB fire design of prestressed concrete structures	Kodur

2015	Structural Technologies	\$90,000	Evaluating fire resistance of FRP-strengthened reinforced concrete beams and slabs	Kodur
2015	Metna Co.(US Army Corps of Engineers)	\$12,173	Indigenous materials for construction – Phase 1 (SBIR)	Kodur
2015	Research Grant Council, Hong Kong		Investigation of the fire resistance and mechanical properties of composite structures strengthened with nanomaterials	Liew, Yuen and <b>Kodur</b>
2014	Metna Co.(US Department of Defense)	\$225,000 (Total project: \$750,000)	Ultra-high-performance concrete-Phase II	<b>Kodur</b> , Soroushian
2014	National Science Foundation of China		High temperature performance and damage mechanism of geopolymer concrete material and components	Zhang, <b>Kodur</b>
2014	National Research Foundation - Singapore		Life safety and structural fire safety of mega underground caverns in Singapore	Tan et al. and <b>Kodur</b>
2013	National Academy of Sciences	\$172,184 (Total project: ~\$350,000)	Capacity building in Pakistan for fire risk management	<b>Kodur</b> , M. Rafi
2013	Metna Co.(US Department of Defense)	\$45,500 (Total project: ~\$150,000)	Ultra-high-performance concrete	<b>Kodur</b>
2012	IUSSTF	\$185,000	Indo-US virtual fire center for advancing research and education in structural fire engineering	<b>Kodur</b> , Bhattacharya, Matsagar
2012	Prestressed Conc. Institute	\$35,000	An approach for PB fire design of concrete hollow-core slabs	<b>Kodur</b>
2011	NSF	\$215,000 (Total project: ~\$4000,000)	Collaborative research: Fire damage mitigation and post-fire evaluation of steel girder bridges	<b>Kodur Garlock</b>
2011	Fyfe Co. LLC	\$19,722	Characterization tests on fire insulation	<b>Kodur</b>
2010	SGH Corp.	\$77,568	High temp. property evaluation of vanadium steel	<b>Kodur</b>
2010	UL/NIST	\$125,000	Fire resistance tests on structural wood beams	<b>Kodur</b>
2010	MSU/ASC, CoE	\$13,000	Indo-US virtual fire center for advancing research and education in structural fire engineering	<b>Kodur</b>
2009	NSF	\$180,000	Guidelines for fire design of FRP strengthened RC beams	<b>Kodur</b>
2008	UL/DHS	\$30,000	High temperature properties of wood for fire resistance modeling of floor systems	<b>Kodur</b>
2008	NSF	\$120,244 (Total project: ~\$250,000)	Guidelines for the design of steel shear angle connections under fire hazard	<b>Kodur Garlock</b>
2008	WPI/NSF	\$2,500 (Total project: ~\$10,000)	SGER: Collection of data on fire at Faculty of Architecture building, Technical Univ. at Delft, NL	<b>Kodur</b>

2008	NSF	\$37,163	United States-India workshop on "Enhancing the resilience of built infrastructure"	<b>Kodur Garlock Iwankiew</b>
2008	Indo-US S&T Forum	Rs 3.75 Lakhs	United States-India workshop on "Enhancing the resilience of built infrastructure"	<b>Banerji, Kodur</b>
2008	NSF	\$120,344 (Total project: ~\$225,000)	Collaborative Research: Fire behavior and design of building floor systems	<b>Kodur</b>
2007	SPG – MSU Foundation	\$720,000	Establishment of structural and fire engineering diagnostic center	<b>Kodur, Wichman, Ghosh</b>
2007	Prestressed Conc. Institute	\$20,000	A numerical approach for PB fire safety design of PC double T beams	<b>Kodur</b>
2007	NIST	\$19,718	Fire research on concrete and steel – student internship projects	<b>Kodur</b>
2007	AISC	\$120,000	PB methodology for demonstrating the feasibility of unprotected steel in sprinklered buildings	<b>Kodur</b>
2007	NSF & NIST	\$184,122 (Total project: ~\$350,000)	Fire Engg. guidelines for the design of steel beam-columns	<b>Kodur</b>
2007	NSF, NIST	\$85,000	National workshop on structures and fire	<b>Kodur</b>
2006	NSF	\$160,000	Fire design guidelines for RC columns	<b>Kodur</b>
2006	Portland Cement Ass.	\$150,000	A model for the fire behavior of High Strength Concrete (HSC) columns	<b>Kodur</b>
2005	IRGP, MSU	\$50,000	Developing an approach for modeling the fire behavior of HSC beams	<b>Kodur</b>
2005	MSU	\$850,000	Establishing fire research program at MSU	<b>Kodur</b>

### Pre MSU Career

<b>Year</b>	<b>Source</b>	<b>Amount \$</b>	<b>Project title/Purpose</b>	<b>*PI/CoPI</b>
2004	PWGSC, NRCC	20,000	Technology transfer - Fire resistance design of FRP-RC systems	<b>Kodur</b>
2003	CSCE, NRCC	30,000	PD Seminars across Canada –Lessons learned from WTC disaster	<b>Kodur &amp; Proulx</b>
2002	FRP industries, ISIS, Queens, NRCC	1,100,000	Fire resistance guidelines for FRP-strengthened RC systems	<b>Kodur &amp; Green (Queen's)</b>
2001	PWGSC, NRCC	115,000	Fire performance of concrete slabs reinforced with FRP bars	<b>Kodur</b>
2000	HEXCEL, SIKA	50,000	Fire resistance experiments on FRP wrapped RC columns	<b>Kodur</b>
2000	CSCC, AISI, NRCC	100,000	Modeling the behavior steel frames exposed to fire	<b>Kodur</b>
1999	PCA, CTL, CAC, NRCC	300,000	Enhancing fire endurance of HSC columns	<b>Kodur</b>
1998	CANMET, MOBIL, NRCC	80,000	Spalling in high strength concrete blocks	<b>Kodur</b>
1998	Univ. of Liege (Belgium), NRCC	200,000	3-D Models for evaluating structural fire performance	<b>Kodur</b>
1997	PCA, CPCA, NRCC	40,000	Factors influencing fire endurance of HSC columns	<b>Kodur</b>

1997	NCTU, ABRI (Taiwan), NRCC	400,000	Mechanical properties and fire performance of HPC	<b>Kodur</b>
1997	TJM	80,000	Fire resistance tests for Parallam wood columns & beams	<b>Kodur</b>
1997	PWGSC, NRCC	20,000	Fire resistance of FRP-RC members	<b>Kodur</b>
1996	CSCC, NRCC	40,000	Fire design guidelines for CFT columns	<b>Kodur</b>
1996	NATO, NRCC	15,000	Feasibility of unprotected steel structures	<b>Kodur</b>
1996	CSCC, NRCC	50,000	Performance of unprotected steel structural systems	<b>Kodur &amp; Yung</b>
1995	PCA, CPCA, CTL, NRCC	400,000	Fire endurance of HSC columns	<b>Lie &amp; Kodur</b>
1995	Consortium of 9 industries + NRCC	500,000	Fire resistance of wood and steel stud walls	<b>Kodur, Sultan</b>

\* **bold indicates PI**

## Advising & Training - Postdoctoral Fellows (PDF), Graduate (Ph.D. & M.S.) & Undergraduate Students

### Current – Ph.D., M.S., Undergraduate Students, PDF and Visiting Research Scholars (VS)

Name	Degree/ Univ.	Years Advised	Dissertation/Research Topic	Host Institute
NAYAK, Rudra Narayan	VS –	2025-2026	Stability of Steel Structures under Fire	Ph.D. student IIT-Bhubaneswar, India
MAVLONOV, Ravshanbek	VS–(FEP) American Councils for Int. Ed.	2025-	Enhancing Sustainability in Modern Constructions	Asst. Lecturer, Uzbek university - Namangan Eng. Construction Inst., Uzbekistan
SAINI, Kusum	VS	2024-2025	Bio-based polymer composites for construction applications	PDF, IIT-Delhi
SAH, Manish	PhD	2023-	Strategies for Enhancing Fire Performance of Polymer Concrete	Advisor
JHA Ankush	PhD	2022-	Enhancing Situational Awareness for Emergency Evacuation in High Rise Buildings	Co-advisor – (with Prof. Lajnef)
DABA Ebisa Tilahun	PhD	2022-	Agriculture Waste Fibers as Reinforcement Material for Sustainable Concrete Structures	Co-advising with Prof. Matsagar, IIT-Delhi
Rajender R	PhD	2022-	Computational Modeling of the Safety of Engineering Structures acted upon by Fire-induced Loads	Co-advising with Prof. Manohar, IISc-Banaglore
RECEP Varan	PhD	2024-	Fire Response of Prestressed Concrete Structures following Seismic Events	Istanbul Technical University, Turkey
ZEGRA DibabaDejenu	M.S.	2025	TBD	
MAGYAR Alyssa	M.S.	2025	Course Option	
BALASUBRAM ANYAM Kishore	MS	2008-	A computer model for predicting fire response of PC beams	Advisor

### Completed (Graduated) – MS, PhD, Undergraduate Students and PDF and Visiting Scholars (VS)

Name	Degree/ Univ.	Year Graduated	Dissertation/Research Topic	Current Position
<b>PDF/RA/VS</b>				
MEGLIO Francesco	VS –	2025-	Fire fragility assessment of bridges	University of Naples Federico II, Italy, Ph.D. student (Professor Nigro - supervisor)
YEHIA, Sherif	VS - Sabbatical	2025-	Fire Response of FRP-strengthened Concrete Structures	Professor, American University of Sharjah, UAE
MATSAGAR, Vasant	Full-bright-Kalam Scholar	2023-2024	Enhancing the fire resistance of bio-based polymers derived from agricultural waste	Head and Dogra Chaired Professor, IIT-Delhi
RAVI PRAKASH, P	Visiting Scholar /SIRE Fellow	2023-2024	Response of high-rise building structures under fire: Advanced simulations and design strategies	Asst. Professor IIT-Jodhpur

VU Xuan Hong	VS	2019-2021	Fire performance of concrete structures	Assoc. Professor, University Claude Bernard Lyon, France
WANG, Ye-hua	VS	2017-2020	Performance of light gauge steel members under the effects of structural and fire loading	Lecturer, Tongji university, China
Hao-ran Lv	VS	2018- 2019	Performance of reinforced concrete beams under fire conditions	South China University of Technology, China
NASER Mohannad	PDF/RA	2016- 2018	Cognitive Infrastructure - A modern concept for resilient performance under extreme events	Asst. Professor Clemson Univ.
HAWEELEH Rami	VS	2015- 2018	Performance of concrete members exposed to hydrocarbon fires	Associate Prof., AUS, UAE
KALIBA Natasha	VS	2017	Residual capacity of concrete members exposed to fire	Milano Polytechnic, Italy
RODRIGUES João Paulo	VS	2017	Effect of shear on the fire response of steel and composite steel and concrete beams	Professor, U. of Coimbra, Portugal
YANYAN Chu	VS	2015-16	Review of smoke movement models in buildings	Asst Prof. Sun Yat- sen University
ZHU Mei-Chun	VS	2015-16	Performance of welded connections under fire	Associate Prof., Shanghai Normal Univ., China.
ESLAMI Mohammad Reza	VS	2015-16	Comparative performance of connections in steel framed structures in Japan and USA	Lecturer, Cal Poly, Engineer, , USA;
ZHANG Gang	VS	2015-16	Performance of concrete bridges under fire	Professor, Chang'an University
ESAM M Aziz	PDF	2015	Guidance for evaluating fire performance of steel bridges	Asst. Professor, Iraq
WANG Yu-zhuo	VS	2015-16	Seismic behavior of post-fire exposed joints in concrete frames	Associate Prof. Shandong Jianzhu U.
ZHOU HuanTing	VS	2015-16	Performance of prestressed steel members under fire conditions	Associate Prof. Wuhan U of Tech.
ZHANG Haiyan	VS	2012- 2013	Development of Geopolymers for fire resistance applications	Professor and Dean, South China U of Tech.
HOU Xiaomeng	VS	2012- 2013	Fire performance of prestressed concrete members	As. Professor, Harbin Institute of Technology
WANG Wei- Yong	PDF	2011	Modeling fire insulation damage in steel columns	Ac. Dean and Professor., Chongqing U, China
KROL Pawel	VS	2011	Fire protection systems in buildings	Ac. Prof., Warsaw U of Tech., Poland
MOLINO Julio C	VS	2011	Fire resistance tests on wood assemblies	PDF, U of Sao Paulo, Brazil
MAO Xiaoyong	VS	2010-11	Evaluating fire resistance of concrete encased steel columns	Professor and Dean., Suzhou U of Sc. & Tech., China
DWAIKAT Mahmoud	PDF	2010	Modeling fire insulation delamination in steel structures	PDF Univ. of Delft, NL
GU Lensir	PDF	2008-10	Fire hazard in bridges	Engineer – Company, China
ALFAWAKHIRI	RA/VS	1998 –	Fire Performance of steel framed structural	Senior Engineer

Farid	(AISC)	2001	systems	AISI/AISC
NWOSU Daniel	PDF NSERC	July 96 – May 99	3-D models for predicting fire resistance	Senior Engineer
BAINGO Darek	RA	1996 – 1998	Fire resistance of concrete slabs reinforced with FRP bars	Program Officer DND, Canada
<b>Completed PhD</b>				
GIL Augusto M	PhD	2019-2024	Response of Fire Exposed Concrete Bridge Girders	Asst Professor, U of Wisconsin-Platteville
KUMAR Puneet	PhD	2015-2022	Evolution of Fire Induced Restraint Forces and their Effect on the Fire Response of Prestressed Concrete Beams	Fire Engg. Specialist, MBJ Consulting Engineers
VENKATACHAR Y Svetha	PhD	2017-2022	Modeling Fire-Induced Instabilities for Tracing Progressive Collapse in Steel Framed Buildings	Asst Professor, IIT-Delhi, India
BHATT Pratik	PhD	2014-2021	Fire performance of FRP-strengthened concrete flexural members	Director, Pacific Structural Forensics, Jersey City, NJ
BANERJI Srishti	PhD	2016-2021	Behavior of ultra-high performance concrete beams under fire conditions	Asst. Professor, Utah State University
SOLHMIRZAEI Roya	PhD	2015-2020	Flexural and shear response of UHPC beams	Asst. Professor, Louisiana Tech Univ., LA
SALEH Alogla	PhD	2013-2019	Characterization of high temperature creep in concrete	Asst. Professor Qassim University, Saudi Arabia
AGRAWAL Ankit	PhD	2013-2020	Residual response of fire damaged reinforced concrete beams	PDF, Danish Inst. of Fire & Security Tech., Denmark
NASER Mohannad	PhD	2011-2016	Response of steel and composite beams subjected to combined shear and fire loading	Asst. Professor Clemson Univ.
SHAKYA Anju	PhD	2011-2016	Flexural and shear response of precast prestressed concrete hollow-core slabs exposed to fire	Design Engineer, Structural Technologies
ARABLOUEI Amir	PhD	2012-2015	A Fracture mechanics-based approach for modeling delamination of spray applied fire resistive materials from steel structures	Senior Structural Engineer Genesis, Technip, USA, Inc., Houston, TX
ESAM M Aziz	PhD	2010-2015	Response of fire exposed steel bridge girders under fire conditions	Asst. Prof. Sulaimani Polytechnic University, Iraq
PAKALA Purushottam	PhD	2009-2014	Modelling the fire response of double angle connections in steel framed structures	Design Engineer, ARUP, USA
YU Baolin	PhD	2010-2013	Fire performance of NSM-FRP strengthened concrete beams	Design Engineer, Ford
KHALIQ Wasim	PhD	2012	Performance characterization of high performance concretes under fire conditions	Asst. Professor NUST, Pakistan
RAUT Nikhil	PhD	2011	Response of RC columns under fire-induced biaxial bending	R&D Engineer Bentley Systems Inc., Chicago, IL
FIKE Rustin	PhD	2010	Strategies for enhancing fire resistance of steel framed structures through composite construction	Research Manager, Dematic Co.

AHMED Aqeel	PhD	2010	Response of FRP-strengthened RC beams under fire conditions	Pr. St. Engineer Directorate of Design & Consultancy Pakistan
DWAIKAT Mahmoud	PhD	2010	Response of restrained steel beams subjected to fire induced thermal gradients	Senior Lecturer, An-Najah Nat. U., Palestine
IQBAL Shahid*	PhD	2010	Capacity reduction & fire load factors for LRFD of steel members exposed to fire	Asst. Prof., NUST Pakistan
DWAIKAT Monther	PhD	2009	Response of RC beams under fire	Senior Lecturer, An-Najah Nat. U., Palestine
WILLIAMS Brea*	PhD Queen's U	2004	Fire performance of FRP-strengthened RC flexural members	Senior Engineer Halsall Ass. Canada
BISBY Luke*	PhD, Queen's U	2003	Fire behavior of FRP – reinforced and confined concrete	Professor, U. of Edinburgh, UK
WANG Tie-Chih*	PhD NCTU, Taiwan	2003	Modeling the behavior of high performance concrete under fire	Engineer, ABRI, Taiwan
ALHAM Hishamuddin*	PhD UTM Malaysia	1998	Fire resistance of concrete-encased steel columns	Asst. Prof. UTM
<b>MS</b>				
SHEN, Xiaoxu	MS	2022-	Fire Response of Steel Columns following Seismic Damage	
RAYALA, Tejeswar	MS	2023-	Fire response of FRP-strengthened Prestressed Concrete Flexural Members	Design Engineer, Grand Rapids
GRONEK Mark	MS	2021-	Fire Performance of Mass Timber Buildings	Owner, Design Firm, MI
RAMESH Bharat	MS	2020-2022	Simplified Approach for Evaluating Fire Resistance of CFHSS Columns	Advisor
MANOHARAN, Sri	MS	2016-2018	Course MS	
ELZASIMON Natasha	MS	2016-2018	Course MS	Senior Engineer, NTH Consultants
SARWAR Mahmood	MS	2015-2017	Effect of temperature on residual compressive strength of UHPC	
HIBNER Derek R	MS	2016-2017	Residual capacity of fire exposed columns	
KAPSIKAR, Kalyani	MS	2015-17	Course option	Engineer, RSE Engineering LLC, Lansing
SHIBESHI Hilina Deleegn	MS	2015-17	Course option	
KOGANTI Ramya	MS	2015-17	Rational design approach for evaluating fire resistance of concrete filled hollow steel columns	
XU Dong	MS	2015-2017	Effect of temperature on residual tensile strength of UHPC	
BAHMER, Ethan	MS	2015-16		
STRATZ Jonathan	MS	2012-2014	High temperature properties of steel bolts under cooling phase of fire	Design Engineer, MDOT, Lanning, MI



XU Dejian	MS	2012-2014	Fire resistance of FRP-strengthened columns under hydrocarbon fires	Engineer,
STEIN Jason	MS	2010-14	Factors governing fire resistance of engineered wood joists	Structural Engineer, IBI Group, Southfield, MI
HATINGER Nickolas	MS	2012	PBD methodology for PC TT beams	Bridge Designer HDR ONE Co. Seattle, WA
HAAN Tyler	MS	2011	Behavior of LWC-filled HSS columns exposed to fire	Project Engineer I Marathon Petroleum Co.
SBIA Libya A	MS	2011	High temp. properties of insulation	MSU - PhD
KAND Sonali	MS	2011	High temp. properties of bolts	Des Er -
KAMAT Kavita	MS	2010	Sustainability of concrete structures	
CHOUDHRY Nikhil	MS	2010	High temp. tensile strength of SCC	Engineer, CA
PAKALA Purushottam	MS	2009	Energy-based approach for evaluating equivalent FR of RC beams	PhD at MSU
VIVIAN Megan	MS (Incomplete)	2007-	Steel beams under different fire exposures	Design Er, Lansing
FIKE Rustin	MS	2007	CFT columns under design fires	PhD at MSU
BAHR Oliver*	MS U. of Hannover, Germany	Mar.-July 2005	Investigations on HSC –filled steel columns	PhD Candidate U. of Hanover, Germany
BUKOSKI Arthur*	MS U. of Hanover, Germany	Mar.-July 2005	Fire Behavior of composite columns in unbraced frames	Senior Engineer
CHOWDHURY Ershad*	MSc Queen's U Canada	2003 – May 2005	Factors influencing fire resistance of FRP-RC members	Senior Engineer Halsall Ass. Canada
GHANI Badri*	MSc UTM Malaysia	1995 – 1997	Fire resistance of sprayed columns	Lecturer UTM
<b>Undergraduate</b>	<b>RA's</b>			
WOODS Lauren A	BS	2016	Characterizing compressive strength of different concrete types	MSU
SEPÚLVEDA María Elisa Ramos	BS	2016	Fabrication of RC beams and slabs for fire tests	U. of Puerto Rico at Mayagüez
WOODS Lauren A	BS	2015-16	Characterizing compressive strength of different concrete types	MSU
HIBNER Derek R	BS	2016	Fabrication of FRP-strengthened beams and slabs for fire tests	
ROCHA MOTA Bruno	Federal Univ. of Bahia, Brazil	2014	Fire losses in built infrastructure	Federal Univ. of Bahia, Brazil
SALKAR Abhishek	NITK, India	2014	Comparison of temp. calculations in fire exposed steel beams	Design Engineer, Kuvelkar Salkar Associates, Goa, India
MASTER	NITK,	2014	Comparison of temp. calculations in fire	Design Engineer,

Abhishek	India		exposed steel beams	SGH Boston
Sagar Singichetti	Okemos High School	2013	Fabrication of test specimens for fire experiments	Amazon, Seattle, WA
GU Japson (H)	MSU	2009-13	High temp. properties of light weight concrete	MBA (MSU)
GIACHINI Pedro	Undergrad - RA	2011-12	High temp. tensile strength tests on light weight concrete	B.Sc., University of Sao Paulo, Brazil
Nishan Harichandran	Okemos High School	2008	Measurement of spalling in fire exposed concrete beams	Michigan State University
KUMAR Sri	MSU	2008-10	Fire behavior of high strength concrete	
GILMARINI Sandra	Co-op	Aug. – Oct. 2004	Fire behavior of high strength concrete	
VRTACIC Sonya	Co-op	May – Aug. 2002	Fire resistance of high strength concrete	Des. Er., Govt. of BC, Canada
JENKINS Stacey	Co-op	Jan.– April 1998	Performance of high strength concrete exposed to fire	
MUISE Jason	Co-op	Jan. – April 97	Fire resistance of reinforced concrete columns	
SUBRAMANIA M Ameendraraj	Summer	May– Sept. 96	Fire resistance of concrete-filled steel columns	Des. Er, Canada
LOUNG Alan	Co-op	Jan.– Apr 95	Fiber-reinforced concrete-filled steel columns	
DUSOME Angela	Summer	May– Aug. 95	Steel fiber-reinforced concrete for fire resistance	
6 Technicians & contractors	NRCC Staff	1994 – 2005	Evaluation of fire resistance through testing & modeling	Tech Officers, NRCC

\* Co-Advisor

- **Evidence of Student/Scholar Recognition**

My graduate students have won awards/fellowships from the university and external sources.

- Kumar P. – MSU “Dissertation Completion Fellowship”, 2026
- Ankush Jha - Best Poster Award at the 2025 Engineering Graduate Research Symposium, College of Engineering, MSU, May 2025
- Tejeswar Rayala - Best Poster Award at the 2025 Engineering Graduate Research Symposium, College of Engineering, MSU, May 2025
- Venkatachary Svetha - Best Poster Award at the 2022 Engineering Graduate Research Symposium, College of Engineering, MSU, April 2022
- Gil Augusto - Best Poster Award at the 2022 Engineering Graduate Research Symposium, College of Engineering, MSU, April 2022
- Venkatachary S.– MSU “Dissertation Completion Fellowship”, 2022
- Kumar P. – MSU “Dissertation Completion Fellowship”, 2021
- Kumar P. and Kodur V.K.R.– The ‘Charles C. Zollman Award’ for “the best state-of-the-art precast and prestressed concrete paper” in the *Prestressed Concrete Institute Journal* PCI 2020
- Zhang G. and Kodur V.K.R. - “Outstanding Paper Award” - 6th Int. Conf. Applications in Structural Fire Engg., Singapore, 2019
- P. Kumar - Best Poster Award at the 2019 Engineering Graduate Research Symposium, College of Engineering, MSU, March 2019
- R. Solhmirzaei –"CEE Best Teaching Assistant Award" - 2019
- A. Agrawal – Second Best Poster Award at the 2018 Graduate Research Poster Symposium, College of Engineering, MSU, 2018
- A. Agrawal –"CEE Outstanding Graduate Student (PhD) Award" - 2018
- M. Naser –"CEE Best Graduate Student (PhD) Award" - 2016

- R. Kognati Chaudhry – "CEE Best Graduate Student (MS) Award" - 2016
- A. Shakya – Nominated to "MSU-CEE Best Graduate Student Award" - 2015
- A. Esam – Third Best Poster Award at the 2015 Graduate Research Poster Symposium, College of Engineering, MSU, 2015
- M. Naser – Honorable Mention, , "MSU-CoE Fitch Beach Competition for the Best Graduate Student in the College" - 2015
- P. Pakala - Honorable Mention, "MSU-CoE Fitch Beach Competition for the Best Graduate Student in the College" - 2014
- A. Esam - Best Poster Award at the 2<sup>nd</sup> Graduate Research Poster Symposium. College of Engineering, MSU, 2012
- B. Yu - Won Dissertation Completion Fellowship, 2012
- P. Pakala - Won Dissertation Completion Fellowship, 2012
- P. Pakala - Best Poster Award at the 1<sup>st</sup> Graduate Research Poster Symposium. College of Engineering, MSU, 2011
- W. Khaliq - Won Dissertation Completion Fellowship, 2011
- R. Fike - "MSU-CoE Fitch Beach Award for the Best Graduate Student in the College" - 2011
- R. Fike – "MSU-CEE Best Graduate Student Award" - 2011
- P. Pakala, M. Dwaikat and V. Kodur – 2<sup>nd</sup> Best Poster Award at the 6<sup>th</sup> Int. Conf. on Structures in Fire, East Lansing, MI - 2010
- M.A.S. Dwaikat and V. Kodur – 3<sup>rd</sup> Best Poster Award at the 6<sup>th</sup> Int. Conf. on Structures in Fire, East Lansing, MI – 2010
- A. Ahmed and V. Kodur – 3<sup>rd</sup> Best Poster Award at the 6<sup>th</sup> Int. Conf. on Structures in Fire, East Lansing, MI – 2010
- Rustin Fike - Won Dissertation Completion Fellowship, 2010
- M.A.S. Dwaikat – "MSU-CEE Best Graduate Student Award" - 2010
- M.A.S. Dwaikat - Won Dissertation Completion Fellowship, 2009
- A. Ahmed and Kodur – Best Student Paper Award at the Composite & Polycon, American Composites Manufacturers Association, Tampa, FL, - 2009.
- M. Dwaikat - "MSU-CoE Fitch Beach Award for the Best Graduate Student in the College" - 2009.
- M. Dwaikat - Won Dissertation Completion Fellowship, 2008
- M. Dwaikat - "CEE Best Graduate Student Award" - 2008.
- R. Fike - Received "Rasmussen Doctoral Recruitment Award" - 2007.
- R. Fike - Received "AISC/Great Lakes Fabricators and Erectors Association Fellowship" - 2006.
- L. Bisby – Best presentation and poster Awards ISIS conference - 2003, 2004.
- B. Williams - Best poster Award at ISIS and CSCE conferences - 2004, 2005.
- E. Chaudhry - Best poster Award at ISIS and CSCE conferences - 2004, 2005.

**Advisory Committee/External Examiner of Ph.D. and M.S. Students**

<b>External – non-MSU</b>				
Student Name	University/PhD Advisor	Degree	Years on Committee	Title of Research Project/Thesis

OBAID Feras Abu	UAE Un, UAE (Prof. Tamer El Maaddawy)	PhD	2025	Rehabilitation of Reinforced Concrete Columns Pre-Damaged By Corrosion Using Advanced Composite Materials
PALIT Sabarna	Indian Institute of Technology- Kharagpur, India ( Prof. S.K Bhattacharyya & D. Maity)	PhD	2025	Behaviour and condition assessment of rigid connection in steel structures exposed to fire
NUMANOVIĆ Mehmed	Ruhr University in Bochum, Germany (Prof. Markus Knobloch)	PhD	2025	Shear Buckling Behavior of Steel-Concrete Composite Plate Girders at Ambient Temperature and In Fire
Niyazuddin	National Institute of Technology, Warrangal (Dr. B. Umesh)	PhD	2025	Bond characterization of GFRP Rebar with various surface configurations in Fibre-Reinforced Geopolymer Concrete
SAHABHAUMI K Avishek	Indian Institute of Technology- Kharagpur, India ( Prof. Arghya Deb)	PhD	2025	Constitutive Modelling of Concrete Under Fire
YADAV Dravesh	Indian Institute of Technology- Gandhinagar, India; (Prof.. Srivatsava G)	PhD	2024	Thermo-mechanical Analysis and Design of Aluminum Structural Systems Subjected to Fire
AZEVEDO Adriana	Universidade de Lisboa, Portugal (Prof. Firmo & Correia)	PhD	2024	Fire Behaviour of Reinforced Concrete Structures Strengthened with Advanced CFRP Systems
HIMANSHU	Indian Institute of Science, Bangalore (Prof. Ramaswamy A)	PhD	2024	Development of Computational Models for Fracture Analysis of Engineering Materials: Application in Adhesively Bonded and Cementitious Composites
KEVINLY Christopher	NTU, Singapore (Prof. Tan K. H. and Dr. Panwei D)	PhD	2024	Structural Behavior of Fibre-Reinforced Lightweight Aggregate Concrete Slabs & Beams at Ambient & Under Elevated Temperatures
MACDOUGALL Brainna	Queen's Univ., Kingston, Canada	PhD	2024	Fire Performance of Ultra-High Performance Concrete Double-Wythe Insulated Panels
Nikhil RANJAN	Indian Institute of Technology (ISM) Dhanbad, India Prof.. Nayak S)	PhD	2024	Enhancing Seismic Behavior of Masonry Structures by Mortar Strengthening Using Waste Materials
KUMAR, Waibhaw	Indian Institute of Technology Roorkee (Prof. UK Sharma)	PhD	2023	Fire Performance of Structural Steel Tubular Columns with and without Infills
SAGAR Bhanavath	National Institute of Technology, Warrangal (Dr. M.V.N. Sivakumar)	PhD	2023	Flexural Response of FRC Beams Reinforced with Basalt Fiber Reinforced Polymer Rebars
HAQ Shahrukh Zia ul	UAE Un, UAE (Dr. Tamer El Maaddawy)	PhD	2023	Characterization and Structural Shear Behavior of Recycled Aggregate Concrete Beams Reinforced with

				Basalt Fibers and Basalt bars
NAN Zhuojun	HKPU, Hong Kong (Prof. Asif Usmani)	PhD	2023	Towards Safer Buildings: An Integrated Approach for Structural Fire Analysis, Design and Collapse Prediction
SARKAR Sajal	Indian Institute of Technology (ISM) Dhanbad, India Profs. Chakraborty & Nayak)	PhD	2023	Low Velocity Impact Performance of Concrete Sub-Structural Members Using ANN Based Application with Optimal FEA Generated Data
Md HUSSAIN Ahsaan	Indian Institute of Technology (ISM) Dhanbad, India (Profs. Dutta & Das)	PhD	2023	Inelastic Seismic Behaviour of Structures Under Orthogonal Components of Horizontal Ground Motion: Addressing a few Critical Issues
HATI Shantanu	Indian Institute of Technology (ISM) Dhanbad, India (Prof. S.K. Panda)	PhD	2023	Game Theory and Nonlinear Programming Approach in Aged Structure and Pile Design Problems having Multiple Objectives
FARMANI Mohammadamin	Monash University, Australia, (Prof. Heidarpour)	PhD	2022	A multi-scale study on thermal creep effects on fire behavior of hybrid steel columns consisting of Ultra-high strength steel tubes and stainless steel plates
RAO B Suguna	Visvesvaraya Technological University, India (Prof. Naik)	PhD	2022	Performance characteristics of recycled aggregate concrete- An experimental study
MALIK, Manisha	Indian Institute of Technology Kharagpur), India, (Profs. S.K. Bhattacharyya and S.K. Barai)	PhD	2021	Temperature prediction and characterization of concrete exposed to elevated temperature
YADAV, Somil	Indian Institute of Technology (ISM) Dhanbad, India, (Prof. S.K. Panda)	PhD	2021	Sustainable development of building and greenhouse integrated photovoltaic thermal system with earth air heat exchanger
HALDER, Lipika	National Institute of Technology Agartala, India, Profs. R.P. Sharma and S.C. Dutta	PhD	2021	Seismic vulnerability assessment of buildings in northeast india
THIYAGARAJA N R	Anna University, Dr K. C. Pazhani	PhD	2021, 2022	Flexural Behaviour of Polypropylene Fibre Reinforced Concrete T-Beams
SHENGXIN Fan	Nanyang Tech. Univ., Singapore (Prof. K.H. Tan)	PhD	2020	Consistent Strut-and-Tie Modelling of Deep and Short Beams and Hollow-Core Slabs at Ambient and Elevated Temperatures
BANDARU Sumanth Kumar	National Institute of Technology Warangal, India, (Prof. D. Rama Seshu)	PhD	2020	An experimental investigation on the shear strength at the monolithic interfaces of the fly ash and GGBS based geopolymer concrete and its application in the corbels
SU Wang	Nanyang Tech.	PhD	2020	Structural Application of Carbon

	Univ., Singapore (Prof. K.H. Tan)			Nanofibers Enhanced Lightweight Cementitious Composite (CNF-LCC)
VAN DER MERWE Johann Eduard	ETH, Switzerland (Prof. M. Fontana)	PhD	2017-2019	Constitutive Models towards the Assessment of Concrete Spalling in Fire
LIM Tze Yang Darren	Nanyang Tech. Univ., Singapore (Prof. K.H. Tan)	PhD	2018	Size Effect in High Strength Concrete Beams Under Shear
RAVI Prakash	Indian Institute of Technology Gandhinagar, (Prof. Gaurav Srivastava)	PhD	2018	Fully Coupled Multi-Physics Nonlinear Analysis of Structural Systems Subjected to Fire
KODAG Pradeep Babnrao	S V National Institute of Technology	PhD	2018	Behavior of Axially and Biaxially Loaded Reinforced Concrete Columns Strengthened with Glass Fiber Composites
GROLIMUND Reto	ETH, Switzerland (Prof. M. Fontana)	PhD	2017-2019	Consolidated Fire Testing of Compressed Steel Members
UKANWA Kingsley	University of Auckland (Prof. G Charles Clifton)	PhD	2018	Fire Design of Concrete Filled Steel Tube Continuous Columns Subjected to Concentric or Eccentric Axial Loading
SCHULTHESS Patrick	ETH, Switzerland (Prof. M. Fontana)	PhD	2017-2019	Consolidated Fire Analysis -- Coupled Numerical Simulation & Physical Testing for Global Structural Fire Analysis
LIU Jincheng	Nanyang Tech. Univ., Singapore (Prof. K.H. Tan)	PhD	2017	Fire Performance of Ductile Fiber Reinforced Cementitious Composites
MAMUN Muhammad	U of Alberta, Canada, (Prof. Vivek Bindiganavile)	PhD	2017	Fractal Nature of Cement Based Systems under Sustained Elevated Temperatures
HAILOO Hamzeh	Queen's.U., Canada (Prof. Green)	PhD	2017	FRP Reinforced Concrete in Fire
SHI Yangquan	City U., Hong Kong	PhD	2016	Preparation of Graphitic Carbon Nitride Based Flame Retardants, and Flame-Retardant Application and Mechanism Investigation for Polystyrene
YAN Weigang	City U., Hong Kong	PhD	2016	Investigation of Fire Behaviors of PU Insulation Materials of Building Exterior Wall Coupled with Building Exterior Wall Geometry
CHEN Ruiyu	City U., Hong Kong	PhD	2016	Thermal Decomposition and Combustion Characteristics of Typical Metro Train Interior Materials
LIU Haiqiang	City U., Hong Kong	PhD	2016	A Study on the Fire Suppression Effectiveness and Its Mechanisms of Mg(OH) <sub>2</sub> Fire Extinguishing Powder media
LIU Junxian	Nanyang Tech. Univ., Singapore (Prof. K.H. Tan)	PhD	2015	Boundary continuity effects on development of membrane actions for composite slab-beam sub-assemblages at elevated temperature
Neuenschwander Martin	ETH, Switzerland (Prof. M. Fontana)	PhD	2016	Fire performance of composite columns

LU Fanxia	ETH, Switzerland (Prof. M. Fontana)	PhD	2015	Thermo-hygro-mechanical analysis of concrete explosive spalling
WANG Jie	City U., Hong Kong (Prof. S.M. Lo)	PhD	2015	Studies on fire smoke characteristics and temperature distribution law in ceiling jet zone of an aircraft cargo compartment
YANG Hongyu	City U., Hong Kong (Prof. R. Yuen)	PhD	2015	Investigation of halogen-free flame retardant and smoke production properties of high-rise building external wall thermal insulation material: Rigid polyurethane foam
PAN Haifeng	City U., Hong Kong (Prof. R. Yuen)	PhD	2015	Design and construction of flame retardant layer by layer coatings on typical 2D cotton fabric and 3D flexible polyurethane foam and study on their properties and mechanism
PRATIBHA M. Alandka	University of Pune, India (Prof. Dr. M.R. Shiyekar)	PhD	2015	Limit state behavior of architectural steel member under combined effect of moment -shear axial force
DUBEY Shailendra Kumar	Savitribai Phule University, India (Prof. Dr. M.R. Shiyekar)	PhD	2015	Behaviour and ultimate strength of infilled frames subjected to lateral loads
NAVEEN G.M.	VTU, Belgaum, Karnataka, India (Prof. Sarangapani)	PhD	2014	Studies on the behavior of arches
GANESHA M.	VTU, Belgaum, Karnataka, India (Prof. G.S. Suresh)	PhD	2014	Studies on light-weight ferrocement subjected to monotonic and repeated flexure
KLINGSCH Eike	ETH, Switzerland (Prof. M. Fontana)	PhD	2013	Explosive spalling of concrete in fire
RUSH David	University of Edinburgh (Prof. L. Bisby)	PhD	2013	Performance of intumescent paint protected concrete-filled SHS columns under fire
Yuen Ka Kui	City U., Hong Kong (Prof. E.W. Lee)	PhD	2013	Artificial neural networks for pedestrian flow in subways
THANG Nguyen Truong	Nanyang Tech. Univ., Singapore (Prof. K.H. Tan)	PhD	2012	Structural behaviour and fire resistance analysis of RC columns at elevated temperatures
HEO Young-Sun	Monash Univ., Australia (Prof. Sanjayan)	PhD	2012	Identification of fibre parameters for spalling protection of concrete in fire
CORREIA Antonio	U. De Coimbra, Portugal (Prof. Rodrigues)	PhD	2012	Fire resistance of steel and composite steel-concrete columns
PAULI Jacqueline	ETH, Switzerland (Prof. Fontana)	PhD	2009-12	The behavior of steel columns in fire: material - cross-sectional capacity - column buckling
MIN Jeong-Ki	U. of Canterbury, New Zealand (Prof. Buchanan)	PhD	2011	Numerical prediction of structural fire performance for precast prestressed concrete flooring systems
BEBAWY Mena	U of Windsor/Lawrence Tech U (Prof.	PhD	2011	Fire performance of FRP-RC beams

PENG Lei*	Carleton U (Prof. Hadjisophocleous)	PhD	2010	Performance of timber connections in fire
SELAMET Serdar	Princeton Un. (Prof. Garlock)	PhD	2008-2011	Fire performance of connections
BAHR Oliver	U. of Hanover, Germany (Prof. Schaumann)	PhD	2010	Investigations on composite frames under fire
QUUIEL Spencer	Princeton U. (Prof. Garlock)	PhD	2007-2009	Performance of beam-columns in Fire
CRAFT Steve*	Carleton U (Prof. Hadjisophocleous)	PhD	2009	Modelling the response of light frame wood floor assemblies to fire
BAHR Oliver	U. of Hanover, Germany (Prof. Schaumann)	MS	Mar.-July 2005	Numerical and experimental investigations on unbraced composite frames under fire
CHOWDHURY Ershad *	Queen's.U., Canada (Prof. Green)	MSc	2003 – May 2005	Factors influencing fire resistance of FRP-RC members
<b>Internal – MSU</b>				
NI, Xiaoqiang Antonio	MSU (Prof. Bill Jin)	PhD	2026	Self-heating self-healing bendable concrete applied on resilient infrastructure
ZACHARY Ahmed,	MSU (Prof. Lu, W))	M.S.	Nov. 2024	3D printed hierarchical honeycombs,
YANG Chen	MSU (Prof. Dargazany R.)	PhD	Aug 2024.	Degradation of polymeric adhesives in adverse environmental conditions
GREINER, Quentin	MSU (Prof. Jin, Qingxu)	M.S.	Nov. 2022	Survey studies of current practices for penetrating sealers and crack sealers for concrete bridge decks
CHEN, Yang	MSU (Prof. Dargazany R.)	PhD	2021 -	TBD
KORAYEM, Abdo	MSU (Prof. Dargazany R.)	MS	May 2021	Effects of photo-oxidation on the mechanical behavior of Polymeric materials: an experimental study
Li Mingzhe	MSU (Prof. Lu)	PhD	Mar. 2019	Dynamic Behavior of Liquid Nanofoam and Its Functionalized Materials and Structures
KUMAR Deepak	MSU (Yiming Deng - ECE)	PhD	2018-	
LI Junfeng	MSU (Prof. Lu)	MS	Oct. 2018	Improved structural imperfection resistance of fluid-filled Thin-walled metallic tubes
MATALKAH Faris	MSU (Prof. Soroshian)	PhD	2017	Cementitious materials
PENGCHENG Jiao	MSU (Prof. Lajnef)	PhD	2014-2017	A novel post-buckling based energy harvesting and design sensing mechanisms
HARSINI Iman	MSU (Prof. Soroshian)	PhD	2017	NMR relaxometry towards nondestructive detection and evaluation of concrete deterioration
ALTURKI Mansour	MSU (Prof. Burgeneo)	MS	Dec. 2014	Concrete columns (walls)
BORCHANI Wassim	MSU (Prof. Lajnef)	PhD	2014	Energy harvesting from localized dynamic transitions in post-buckled elastic beams under quasi-static loading



PEYVANDI Amirpasha	MSU (Prof. Soroshian)	PhD	2013	Balanced improvement of high performance concrete material properties with modified graphite nanomaterials
SADIQ Muhammad	MSU (Prof. Soroshian)	PhD	2012	Reinforcement of cement-based matrices with graphite nanomaterials
STRINGER David	MSU (Prof. Burgeneo)	MSc	2012	Identification of causes & solutions for deck cracking in jointless bridges
FEDAK Lauren	MSU (Prof. Burgeneo)	MS	2012	Plastic hinge models & analysis tools for PB seismic design of RC bridge columns
LIU Wenyang	MSU – CEE (Prof. Hong)	PhD	2012	Discretized bond-based peridynamics for solid mechanics
JINGJUN Shen	MSU – CEE (Prof. Hong)	MS	2012	NDT
MEHRAVARAN Meisam	MSU – ME (Prof. Brereton)	PhD	2010-	Deposition of soot particles due to thermophoresis in EGR coolers
NASAR Roz-Ud-	MSU (Prof. Soroshian)	PhD	2010	Development of materials for a sustainable concrete-based infrastructure
YI Sun	MSU (Prof. Burgeneo)	MS	2011	HSC Shear Walls
PAVLICH Benjamin	MSU (Prof. Burgeneo)	MS	2009	Evaluation of prefabricated composite steel box girder systems for rapid construction

\* External Examiner only

## Publications

### Refereed Journal Papers

#### Published and in Press

##### 2025

1. Mehra, A.S., Singh, S.B., Kodur, V. K. R. "Structural Behavior and Failure Characteristics of Fiber Reinforced Polymer-Concrete Composite Beams Incorporating Glass Roving Tied GFRP Shear Connectors", *Journal of Polymers*, **in-Press**: Vol XX (Y), ZZZ, <https://doi.org/10.3390/polym17030404>, pp. 1-26, 2025.
2. Kodur V.K.R. Rayala, T., Kim, H.S. "Rational Approach for Evaluating Fire Resistance of Prestressed Concrete Beams strengthened with Fiber-Reinforced Polymers", *J. of Polymers*, Vol 17(20), 2773, pp. 1-22, 2025.
3. Jha A., Lajnef N., and Kodur V.K.R. "Modelling the effect of smoke on evacuation strategies in hospital buildings", *Journal of Buildings*, Vol 15(17), 3093, pp. 1024, 2025.
4. Banerji S., Kodur V.K.R. and Gil A.M. "Guidelines for Fire Design of Ultra-High Performance Concrete Beams", **in-Press**: *ACI Structural Journal*, pp. 1-22, 2025.
5. N Ranjan, S Banerjee, S Nayak, VKR Kodur, S Das. "Shaking table tests of one and two story masonry building models seismically augmented with plastic waste reinforced cementitious composite", *Journal of Structures*, Vol. 76, pp. 109015, 2025.
6. Naser, M. Z, and Kodur, V. K. R., "Simple empirical equations to predict temperature rise and deformation history in structural members under standard fires", *Journal of Engineering Structures*, Vol. 341, pp. 120881, 2025.
7. Naser M.Z., al-Bashiti M.K., Tapeh A.T.G., Eslamlou A.D., and Kodur V.K.R., "A Review of 315 Benchmark and Test Functions for Machine Learning Optimization Algorithms and Metaheuristics with Mathematical and Visual Descriptions", *Wiley Interdisciplinary Reviews: Computational Statistics*, Vol. 17(2), e70028, 2025.
8. Naser, M. Z, and Kodur, V. K. R., "Vulnerability of structures and infrastructure to wildfires: a perspective into assessment and mitigation strategies", *Journal of Natural Hazards*, Vol.121(8), pp. 9995-1015, 2025.
9. Kodur, V. K. R., Naser, M. Z, Kim, H.S. "Machine Learning Techniques to Trace Fire Response of Concrete Filled Steel Tubes", **in Press**: *Journal of Steel and Composite Structures*, pp. 1-22, 2025.
10. Lee Y., Chun, Y., Kodur, V. K. R., Kim, H.S. "Effect of Supplementary Cementitious Materials on Post-fire Performance of Concrete Columns ", *International Journal of Concrete Structures and Materials*, Vol. 19(1), pp. 1-49, 2025.
11. Kodur, V. K. R., Naser, M. Z, Kim, H.S. "Testing Protocols and Procedures for Undertaking Fire Resistance Tests on Concrete Structures Incorporating Fiber-Reinforced Polymers", *Journal of Polymers*, Vol 17 (3), 404, <https://doi.org/10.3390/polym17030404>, pp. 1-24, 2025.
12. Kodur, V. K. R., Naser, M. Z, Kim, H.S. "Fire Performance of Concrete Structures incorporating FRP Reinforcement: State-of-the-Art and Knowledge Gaps ", *Journal of Cement and Concrete Composites*, <https://doi.org/10.1016/j.cemconcomp.2025.106074>, pp. 1-24, 2025.
13. Shabanlou, M., Mofid M., Eslami M., , Kodur V.K.R, Meghdadi Z., and Amirali T. "Experimental, Analytical and Numerical Investigation on the Effects of Different Shear Reinforcement on Residual Post Fire Behavior of Reinforced Concrete Deep Beams", *J. of Structure and Infrastructure Engineering*, pp. 1-18, 2025.
14. Sah M, Kodur V, Almaadawy A, Banerji S. Characterizing the thermal properties of polymer concrete at elevated temperatures. *Cement and Concrete Composites*. <https://doi.org/10.1016/j.cemconcomp.2025.106175>, 1;163:106175, 2025.

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15. Gil A.M., and Kodur V.K.R “Fire hazard in concrete bridges: review, assessment and mitigation strategies”, *Journal of Structure and Infrastructure Engineering*, Vol. 20 (10), 1577-1594, 2024.
16. Bolina, F.L., München, R.M., Dal Lago B., and Kodur V.K.R., "A comparative study between ultra-high-performance concrete structures and normal strength concrete structures exposed to fire", *Journal of Structures*, Vol. 68, 107197, 2024.
17. Daba E.T., Zelleke D., Bishnoi D., Matsagar V.M., and Kodur V.K.R. “Characterization of Plant-Based Natural Fiber Ropes for Potential Application as Reinforcement in Concrete Structures”, *J of Natural Fibers*, Vol. 21(1) 2397703, pp. 1-24, 2024.
18. Rezaeian A., Salehi M.S., and Kodur V.K.R., "Performance of steel beams with endplate connections exposed to fire", *Journal of Advances in Structural Engineering*, 27 (15), 2750-2764, 2024.
19. Pulkit, U., Adhikary S.D., and Kodur V.K.R. “Influence of fire severity and concrete properties on the thermo-hygral behavior of concrete during fire exposure”, *Journal of Structural Concrete*, Vol 26 (2), 1560-1577, pp. 1-22, **2025**.
20. Venkatachari, S., Kodur, V. K. R. ”Guidance for the Treatment of High-temperature Creep in the Fire Resistance Analysis of Steel Structures”, *Journal of Steel and Composite Structures*, (Elsevier Q1 Journal) pp. 1-22, 2024.
21. Bhatt P., Sharma N., Kodur V.K.R., Naser ; M.Z. “Machine Learning Approach for Predicting Fire Resistance of FRP-Strengthened Concrete Beams”, *Journal of Structural Concrete*, pp. 1-23, 2024. <https://doi.org/10.1002/suco.202400466>.
22. Pang S., Kodur V.K.R. and Wang W. “Fire resistance of steel structures, incorporating HSS-review and recommendations”, *J of Constructional Steel Research*, 217, 108677, 2024.
23. Bhatt P., Kodur V.K.R., Naser ; M.Z. “Dataset on Fire Resistance Analysis of FRP-Strengthened Concrete Beams”, *Journal of Data in Brief*, 52, pp. 110031, 2024.
24. Sun W.K., Yin B.B., Sun J., Kodur V.K.R and Liew, K.M.. “Modeling via peridynamics for crack propagation in laminated glass under fire”, *J. of Composite Structures*, 338, 118112, 2024.
25. Solhmirzaei R., Saleh, V. and Kodur V.K.R. “A computer vision-based approach for crack detection in ultra high performance concrete beams”, *Journal of Computers and Concrete*, 33 (4), 341, 2024.
26. Kodur V.K.R., Jha A. Lajnef N. "Critical Egress Parameters Governing the Assisted Evacuation in Hospital Buildings ", *Journal of Fire*, 7 (3), pp. 1-11, 2024.
27. Eslami, M., Mosallam K.M., Kodur V.K.R., and Vandevort S.. “Blast Performance of Point-Supported Laminated Glass Panes with Non-Rigid Supports” *J. of Engineering Structures*, 306, 117811, 2024.
28. Kodur V.K.R., Gil A.M., and Naser ; M.Z. “Fire-Induced Collapse of an I-95 Overpass in Philadelphia Causes, Collapse Mechanism, and Mitigation Strategies”, *Journal of Engineering Structures*, 303, 117578, 2024.
29. Saini K., Matsagar, V.A., and Kodur, V., “Recent Advances in the use of Natural Fibers in Civil Engineering Structures”. *J of Construction and Building Materials*, Vo.. 411, pp. 134464, 2024.
30. Naser MZ, Ross B, Ogle J, Kodur V.K.R., Hawileh R., Abdalla J, Thai HT. “Evaluating the Performance of Artificial Intelligence Chatbots and Large Language Models in the FE and PE Structural Exams”, *ASCE Practical Periodical on Structural Design and Constr.*, 29(2), 02524001, pp. 1-10, 2024
31. Sun W.K., Yin B.B., Akbar A., Kodur V.K.R and Liew, K.M.. “A coupled 3D thermo-mechanical peridynamic model for cracking analysis of homogeneous and heterogeneous materials”, *J. of Computer Methods in Applied Mechanics and Engineering*, Vol. 418, pp 116577, 2024.

32. Gil A.M and Kodur V.K.R.. "Evaluating Shear Response of UHPC Bridge Girders Exposed to Fire", *Journal of Fire Technology*, pp 1-24, <https://doi.org/10.1007/s10694-023-01506-4>, 2024.

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33. Liew, K.M., Sun W.K., Yin B.B., Sun J., and Kodur V.K.R. "Modelling of Fire Resistance and Mechanical Performance of Glass Façades", *J. of WIT Transactions on Engineering Sciences*, Vol. 35, pp 65-77, 2023.
34. Eslami, M., Mosallam K.M., Kodur V.K.R., and Young C. "Multi-performance blast pressure-duration curves for point-supported laminated and monolithic glass panes" *J. of Engineering Structures*, 293, pp. 116620, 2023.
35. Gil A.M., Banerji S. and Kodur V.K.R "Factors influencing pore pressure measurements in concrete during heating and its influence on fire-induced spalling", *Journal of Cement and Concrete Composites*, Vol. 142, pp. 105228, 2023.
36. Kanagaraj B., Anand N., Andrushia D., and Kodur V.K.R. "Residual properties of geopolymer concrete for post-fire evaluation of structures ", *Journal of Materials*, Vol. 16 17), pp. 6065, 2023.
37. Venkatachari S. and Kodur V.K.R. "Modeling parameters for predicting the fire-induced progressive collapse in steel framed buildings", *J. of Resilient Cities and Structures*, Vol 2(3), pp. 129-144, 2023.
38. Abdoh D.A., Zhang W., Ademiloye A. S., Kodur V.K.R. and Liew, K.M. "Modeling of heating and cooling behaviors of laminated glass facades exposed to fire with three-dimensional flexibilities", *Journal of Composite Structures*, Vol 314, pp. 16961, 2023.
39. Thanaraj D.P., Anand N., Andrushia D., Lubloy, E. and Kodur V.K.R. "Micro-structure assessment and Modeling the Heating-Cooling Regime based strength properties of Structural concrete at High Temperature Exposure", *Journal of Thermal Analysis and Calorimetry*, Vol. 148 (9), pp. 3221-3247, 2023.
40. Wang W., Pang S, and Kodur V.K.R. "Temperature dependent properties of high strength steel for evaluating fire resistance of structures", *Journal of Advances in Structural Engineering*, Vol 26 (12), pp. 1-24, 2023.
41. Kodur V.K.R., and Banerji S. "Comparative fire behavior of reinforced concrete beams made of different concrete strengths", *Journal of Fire Technology*, <https://doi.org/10.1007/s10694-023-01375-x>, 2023.
42. Kodur, V., Venkatachari, S., Bhatt, P., Matsagar, V.A., & Singh, S.B. "Fire Resistance Evaluation of Concrete Beams and Slabs Incorporating Natural Fiber-Reinforced Polymers". *J of Polymers*, 15 (3), 755. <https://doi.org/10.3390/polym15030755>, 2023.
43. Kiran T., Anand N.A., Andrushia D., Kodur V.K.R., Mervin E.M., Mathews G., Prince Arulraj, "Performance of clay masonry prisms with light weight plaster exposed to standard fire exposure", *J. of Fire and Materials*, 47(1), 99-119, <https://doi.org/10.1002/fam.3081>, 2023.
44. Banerji S., and Kodur V.K.R., "Numerical model for tracing the response of ultra-high performance concrete beams exposed to fire", *J of Fire and Materials*, Volume 47, Issue 3, pp 322-340, April 2023.

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45. Kodur, V.K.R. and Gil, A. "Fire hazard in concrete bridges: Review, Assessment and Mitigation strategies", *Journal of Structure and Infrastructure Engineering*, pp. 1-18, 2022.
46. Eslami, M., Mirza Mohammadi, P.K., Khalilpour S.H.; Parsa H., Kodur V.K.R., "Experimental and numerical investigation of blast wave attenuation by using barriers in different configurations and shapes" *ASCE J. of Structural Engineering*, 149 (1), Nov. 2022, pp. 1-22, 2022.
47. Kumar P., Kodur V.K.R. "Effect of fire-induced restraint forces on fire behavior of reinforced and prestressed concrete beams", *J. of Engineering Structures*, 275, 115200, pp 1--28, 2022

48. Kiran T, Yadav S.K, Anand N, Mervin E M, Andrushia D, and Kodur V.K.R. "Performance evaluation of lightweight insulating plaster for enhancing the fire endurance of high strength structural concrete", *Journal of Building Engineering*, 57, 104902, 2022.
49. Kodur V.K.R. and Bhatt P. "Fire hazard in tunnels: review, assessment, and mitigation strategies", *Indian Concrete Journal*, V. 96(03), pp. 13-25, 2022.
50. Eslami M., KM Mosalam K.M., V Kodur V.K.R., "Effect of column compactness on cyclic behavior of bare and composite beam-to-HSS column connections", *J. of Engineering Structures* 267, 114659, 2022.
51. Rezaeian, A., Daghari A., and Kodur V.K.R. "Behavior of polypropylene fiber-reinforced concrete beams exposed to fire", *ACI Materials Journal*, 119 (5), 25-36, 2022.
52. Gil A., Kodur V.K.R., Pacheco F., Schneider D., Christ R., and Tutikian B. "Post-fire assessment and retrofitting of concrete buildings: Case study", *ACI Structural Journal*, 119 (5), pp. 1-22, 2022.
53. Abdoh D.A., Yin B.B., Kodur V.K.R. and Liew, K.M. "Computational efficient algorithm for crack modeling in homogenous and heterogenous materials", *Journal of Computer Methods in Applied Mechanics and Engineering*, 399, 115318, 2022.
54. Solhmirzaei R., Hadi, S. and Kodur V.K.R. "Predicting flexural capacity of ultra-high performance concrete beams: A Machine learning based approach" *ASCE Journal of Structural Engineering*, 148 (5), 04022031, 2022.
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#### **Non-Refereed Conference Contributions (Presentations)**

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2. Sah M., Almaadawy A, Banerji S, and Kodur V.K.R. "Performance of Polymer Concrete Beams Under Fire Exposure" ACI 123: Open Topic Sessions, ACI Fall Convention, Baltimore, MD, pp. 1-2, 2025.

3. Kodur V.K.R. "Development of Ultra High-Performance Concrete for Fire Resistance Applications", ACI Fall Convention, Baltimore, MD, pp. 1-2, 2025.
4. Kodur V.K.R. "Fiber Reinforcement for Minimizing Spalling in HPC Structural Members Exposed to Fire ", American Concrete Institute Spring Convention, New Orleans - "Fiber Orientation in UHPC: Quantification, Characterization, and Implications for Design and Performance", March 26, 2024.
5. Jha A., Kodur V.K.R., Lajnef N. "Critical egress parameters governing the assisted evacuation in hospital buildings", NFPA® 2024 Conference and Expo, pp. 1-2, 2024.
6. Daba E.T., Zelleke D.H., Matsagar, V., Kodur, V.K.R., "Characterization of Natural Fiber Ropes for Potential Applications as Reinforcement in Concrete", **Proceedings:** [ICNF2023 – 6th International Conference on Natural Fibers, Funchal, Portugal](#) June 19-21, 2023.
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15. Kodur, V.K.R. and Agrawal A. "Evaluating Residual Capacity of Fire Damaged Structures". Third Mini Symposium and Workshop on Design for Fire Safety in Buildings and Built Infrastructure, American University of Sharjah, Sharjah, UAE March 13-14, 2016.
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#### **Trade Magazines & Newsletters**

1. Kodur, V.K.R., "Strategies to Enhance Fire Resistance of High-Strength Concrete Structures", *SFPE-Fire Protection Engineering Magazine*, 1st Quarter, pp. 1-8, 2023.
2. Kodur, V.R. and Matsagar V, "Indo-U.S. Symposium for Enhancing Fire Safety in Built-Infrastructure", Indo-U.S. Science & Technology Forum Newsletter "Connect", January 2022.
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#### **Invited Plenary\*/Key-note Presentations**

1. Kodur V.K.R. "Engineering Fire Performance of Concrete Structures incorporating Fibre Reinforced Polymer Reinforcement", 6th Asian Conference on Ecstasy in Concrete (ACECON 2025), Indian Concrete Institute, Dec. 8-10, 2025, Hyderabad, India – **Plenary Presentation**.
2. Kodur V.K.R. " Advanced Analysis for Conditional Assessment, Rehabilitation and Retrofitting of Fire Damaged Structures", Condition Assessment, Rehabilitation and Retrofitting of Structure (CARRS 2025), Roorkee (IIT), India, Dec. 11-13, 2025 – **Plenary Presentation**.
3. Kodur V.K.R. "Fire Design of Steel Structures incorporating Strength and Stability Considerations", SPARC Workshop: Fire Safety in Steel and Composite Structures, IIT Bhubaneswar, India, Sept. 17, 2025 - **Keynote Presentation**.
4. Kodur V.K.R. "Methodologies for Enhancing Fire Resistance of Steel Structures through Composite Construction", SPARC Workshop: Fire Safety in Steel and Composite Structures, IIT Bhubaneswar, India, Sept. 17, 2025 - **Keynote Presentation**.
5. Kodur V.K.R., Banerji S, Sah M., and Almaadawy A. "Fire Performance of Structural Members Incorporating

- Polymer Concretes”, Polymer Concrete; Applications, Advancements, and Benefits, NEx Workshop at ACI Fall Convention, Baltimore, MD, MA, Oct. 29, 2025 - **Keynote Presentation**.
6. Kodur V.K.R. “Development of Ultra High-Performance Concrete for Fire Resistance Applications”, Third International Conference on Construction Materials and Structures (ICCMS 2025), IIT-Tirupati, India, July 3-5, 2025. **Plenary Presentation**.
  7. Kodur V.K.R. “Recent Advances for Enhancing Fire Safety in Buildings”, Sharjah International Fire Technology & Engineering Conference (SIFTEC 2025) Series: The First Symposium on Recent Advances in Fire and Life Safety, American University of Sharjah, UAE, April 9-10, 2025. **Key-note Presentation**.
  8. Kodur, V.K.R. “Forensic Investigation of Fire Damaged Steel Structures”, 4<sup>th</sup> International Conference on Architectural, Civil, and Environmental (ACE) Forensic Engineering (Webinar), Korea University, Seoul, Korea. Jan. 14-17, 2025; **Key-note Presentation**.
  9. Kodur V.K.R. and Venkatachari S., "Strategies for Minimizing Fire Induced Progressive Collapse in Steel Framed Buildings", 14<sup>th</sup> Structural Engineering Convention 2024, Trichy, India., Dec. 12-14, 2024 – **Plenary Presentation**.
  10. Kodur V.K.R. "Strategies for Enhancing Fire Performance of Concrete Structures incorporating Non-metallic Reinforcement", 4<sup>th</sup> R. N. Raikar Memorial International Conference & Ghosh-Mukherjee International Symposium on Advances in Science & Technology Concrete, Mumbai, India, Dec. 12-14, 2024 - **Keynote Presentation**.
  11. Kodur V.K.R. "Need for Innovations for Mitigating Fire Hazard in Buildings and Infrastructure", IC-IMPACTS - A Canadian Network of Centres of Excellence Conference, New Delhi, India, Dec. 9-11, 2024 - **Keynote Presentation**.
  12. Kodur, V.K.R. "World Trade Center Building Disaster: Stimulus for Fire Safety innovations", Indian National Academy of Engineering (INAE) 37th Distinguished Lecture - INAE Bhubaneswar Chapter, SOA University, CSIR-IMMT Bhubaneswar, IIT Bhubaneswar, NISER Bhubaneswar & IEEE Bhubaneswar Sub-section 18th July, 2024 -**Distinguished Lecture**
  13. Kodur V.K.R. "Structural Fire Engineering – Current Practice, Emerging Trends, and Future Directions”, International Fire Lab workshop on Structural Fire Testing”, Wuhan University, China, Oct. 10-12, 2024, **Keynote Presentation**.
  14. Kodur V.K.R. "Strategies for Enhancing Fire Safety in Buildings”, SPARC Workshop: “Designing Structures for Fire Safety”, IIT Bhubaneswar, India, July 11, 2024 - **Keynote Presentation**.
  15. Kodur V.K.R. "Design Methodologies for Enhancing Fire Resistance of Steel Structures through Composite Construction”, LSDSS-2024, Workshop on “Limit State Design of Steel Structures”, NIT Jamshedpur, India, May 17 -21 2024,- **Keynote Presentation**.
  16. Kodur V.K.R. "Resilience of Structures with Engineered Composites, against Fire”, SPARC Workshop: “Resilience of Structures under Extreme Loading Events: Engineering Composites for Resilient Construction”, IISc, Bangalore, March 3-5, 2024 - **Keynote Presentation**.
  17. Kodur V.K.R. "Forensic Investigation of Fire Damaged Structures", Online Int. Orientation Course on “Forensic Structural Engineering”, IAStructE & FiB, April 17, 2024, Webinar – **Keynote Presentation**.
  18. Kodur V.K.R. "Development of Ultra-High-Performance Concrete for Fire Resistance Applications", Advances in Concrete, Structural, & Geotechnical Engineering (ACSGE 2024), Pilani, India, Feb 26-28, 2024 – **Plenary Presentation**.
  19. Kodur V.K.R. "Need for Innovations for Mitigating Fire Hazard in Modern Concrete Structures”, International Symposium (ICI – IWC 24) on Concrete Construction: Present and Future, Indian Concrete Institute. Kolkata, India, January 18-20 2024. **Keynote Presentation**.

20. Kodur V.K.R. "Advanced Analysis for Enhancing Fire Resistance of Steel Structures through Composite Construction", Structural Engineering Convention 2023, Nagpur, India., Dec. 7-9, 2023 – **Plenary Presentation**.
21. Kodur V.K.R. "Forensic Engineering for Conditional Assessment and Refurbishment of Fire Damaged Structures", Condition Assessment, Rehabilitation and Retrofitting of Structure (CARRS2023), IIT Hyderabad India, Dec. 10-13, 2023 – **Plenary Presentation**.
22. Kodur V.K.R. "Strategies for Enhancing Fire Performance of Concrete Structures incorporating Fiber Reinforced Polymers", FRP Composites in the Face of Fire: Insights from Research and Industry, NEx Workshop at ACI Fall Convention, Boston, MA, Nov. 01, 2023 - **Keynote Presentation**.
23. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", "International Conference on Modern Trends in Civil Engineering Infrastructure Development and Management (MTCEIDM) 2023", BMS College of Engineering, Bangalore, India, December 9-11, 2023; **Key-note Presentation**.
24. Kodur V.K.R. "Strategies for Mitigating Fire Performance Problems in New Generation of Concretes and Structures", 64th Brazilian Concrete Congress - "Materializing Innovation and Sustainability" Oct. 18-21 2023, Florianópolis, Brazil – **Plenary Presentation**.
25. Kodur, V.K.R. "Conditional Assessment and Refurbishment of Fire Damaged Structures: From Reconnaissance to Advanced Analysis"; Expert Lecture series on Building Science and Technology, CSIR - Central Building Research Institute, Roorkee, India, July 17, 2023, **Key-Note Lecture**.
26. Kodur, V.K.R., "World Trade Center Building Disaster: Stimulus for Fire Safety Innovations"; Public Seminar, Indian Institute of Science, Bangalore, India, May 24, 2023, **Key-note Presentation**.
27. Kodur V.K.R. "Strategies for Mitigating Performance Problems of New Generation of Concretes under Fire Hazard", The International Conference on Climate Resilient Construction and Building Materials (ICCRCBM 2023), NIT-K Surathkal, India, March 3-5, 2023 – **Plenary Presentation**.
28. Kodur, V.K.R. "Conditional Assessment of Fire Damaged Structures: From Reconnaissance to Advanced Analysis", 2nd International Conference on Architectural, Civil, and Environmental (ACE) Forensic Engineering (Webinar), Korea University, Seoul, Korea. Jan. 10-12, 2023; **Key-note Presentation**.
29. Kodur, V.K.R., "Need for Structural Resiliency to Mitigate Fire Hazard in Modern Structures", SFPE22 Annual Conference & Expo, Detroit, MI, October 12-14, 2022; **Key-note Presentation**.
30. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", International Forum on Resilience of Critical Infrastructure Systems, Shanghai, China, November 18-20, 2022; **Plenary Speech**.
31. Kodur, V.K.R. "Strategies for Mitigating Fire Hazard in Critical Transportation Infrastructure", Indian National Academy of Engineering (INAE) Seminar, Indian Institute of Technology (IIT) Delhi, New Delhi, India, July 27 2022; **Key-note Presentation**.
32. Kodur, V.K.R., "Strategies for Overcoming Fire Hazard in Structures Incorporating FRP Composites", Workshop on FRP Materials and Sustainable Structures (Hybrid Meeting), BITS Pilani, India, March 4, 2022. **Key-note Presentation**.
33. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", Special Seminar, The KCI Presidential Lecture Series, Korea Concrete Institute, Seoul, Korea, March 23, 2022; **Key-note Presentation**.
34. Kodur, V.K.R. "Application of Forensic Engineering for Conditional Assessment of Fire Damaged Structures",



1st International Conference on Architectural, Civil, and Environmental (ACE) Forensic Engineering (Webinar), Korea University, Seoul, Korea. Jan.26-27, 2022; **Key-note Presentation.**

35. Kodur, V.K.R. "Innovative strategies for overcoming fire performance issues associated with modern materials, structures and construction practices", Indo-US Symposium for Enhancing Fire Safety in Built-Infrastructure, Indian Institute of Technology (IIT) Delhi, New Delhi, India, December 9-11, 2021; **Key-note Presentation.**
36. Kodur, V.K.R., "Solutions for Enhancing Fire Resistance of High-Performance Concrete Members", 'PCI Ultra-High-Performance Concrete Workshop', Prestressed Concrete Institute, Rosemont, IL, Sept. 21, 2021; **Key-note Presentation.**
37. Kodur, V.K.R., "World Trade Center Building Disaster: Lessons for Engineering Response", 'Steel and Fire - SFPE technical session (Virtual) on the 20th anniversary of 9-11', Society of Fire Protection Engineers, Ottawa Chapter, Canada, , September 08, 2021, **Key-note Presentation.**
38. Kodur, V.K.R. "Innovative Strategies for Enhancing Fire Performance of High Performing Materials and Structural Systems", 'Global Summit on Civil, Architectural and Environmental Engineering (GSCAEE-2021)', *The Scientist*, Barcelona, Spain, July 19-21, 2021; **Plenary Presentation.**
39. Kodur, V.R., "Designing Modern Concrete Structures for Fire Safety", 'International Workshop (Virtual) on Recent Advancements in Structural Engineering', Charotar University of Science and Technology (CHARUSAT), Anand, Gujarat, India, March 30-31 2021, **Key-note Presentation.**
40. Kodur, V.K.R. " **Strategies for Mitigating Fire Hazard in Bridges**", 'International Conference of International Association of Bridge and Structural Engineering Congress (IABSE2020)', Christchurch, New Zealand, February 3-5 2021, **Key-note Presentation.**
41. Kodur, V.K.R., "Strategies for Overcoming Fire Hazard in FRP-strengthened Concrete Structures", "CIGOS - The International Conference series on Geotechnics, Civil Engineering Works and Structures", Ha Long city, Vietnam (Virtual) October 28 to 29, 2021, **Plenary Presentation.**
42. Kodur, V.K.R., and Venkatachari S. "Advanced Analysis for Tracing Fire Induced Progressive Collapse of Steel Framed Buildings", The 11th International Symposium on Steel Structures (ISSS-2021), Jeju, Korea, Nov. 3-6, 2021; **Key-note Presentation.**
43. Kodur, V.K.R., and Gil A.M. "Enhancing the Fire Resistance of Composite Structures through Advanced Analysis", 9th International Symposium on Composite Construction in Steel and Concrete, (CCIX-2021), (ONLINE), Germany, July 27-29, 2021; **Key-note Presentation.**
44. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", International Conference on Fire Prevention and Protection, Federal University of Santa Maria, Santa Maria Brazil, Oct. 26, 2020; **Key-note Presentation.**
45. Kodur, V.K.R. "Strategies for Overcoming Fire Performance Problems in Modern Concrete Structures"; Chief Guest and **Key-Note Lecture** on the 79th CSIR Foundation Day celebration at CSIR-CBRI, Central Building Research Institute, Roorkee, India, Sept. 26, 2020.
46. Kodur, V.K.R. "Fire Performance of High Performing Materials and Structures – Emerging Trends and Research Needs", The Second Conference on Emerging Structural Materials and Systems (EMSM 2020), SCUT, Guangzhou, China, Sep. 25-27, 2020; **Key-note Presentation.**
47. Kodur, V.K.R., "Innovative Strategies for Overcoming Fire Hazard in Critical Transportation Infrastructure", Vaishvik Bhartiya Vaigyanik (Vaibhav) Summit (Virtual) on 'Strategies for sustainable road infrastructure – interventions through new materials and monitoring techniques', CSIR-Structural Engineering Research Centre, Chennai, India, Oct. 17, 2020, **Key-note Presentation**
48. Kodur, V.K.R., "Fire Aspects in Structural Strengthening and Effective Fire Design Strategies", **Key-note**

- Lecture** (as Chief Guest), *E-launch of 'Guidelines on Structural Rehabilitation and Retrofitting'*, Association of Structural Rehabilitation (ASTR), India, July 11, 2020.
49. Kodur, V.K.R., "Strategies for Enhancing Fire Resistance and Resiliency of Modern Concrete Structures Under Fire Hazard", *International Webinar on "Smart cities: beyond the Pandemics"*, Birla institute of Technology-Pilani, India, July 10-11, 2020; **Key-note Presentation**.
  50. Kodur, V.K.R., "Conditional Assessment of Fire Damaged Structures: From Reconnaissance to Advanced Analysis", *Pacific Earthquake Engineering Research (PEER) Center Annual Meeting*, University of California-Berkeley, CA. Jan 16 and 17, 2020; **Key-note Presentation**
  51. Kodur, V.K.R., and Naser M Z., "Strategies for Mitigating Fire Hazard in Steel Bridges", *10th International Symposium on Steel Structures (ISSS-2019)*, Jeju, Korea, Nov. 13-16, 2019
  52. Kodur, V.K.R., and Naser M Z., "Strategies for Mitigating Fire Hazard in Steel Bridges", *10th International Symposium on Steel Structures (ISSS-2019)*, Jeju, Korea, Nov. 13-16, 2019
  53. Kodur, V. "Need for Computational Models for Simulating the Response of Concrete Structures Exposed to Fire", *7th International Congress on Computational Mechanics and Simulation (ICCMS-2019)*, Indian Institute of Technology (IIT) Mandi, India, December 11-13, 2019, **Plenary Presentation**.
  54. Kodur, V.K.R., "Strategies for Enhancing Fire Resistance and Resiliency of Modern Concrete Structures", *American Concrete institute- India Chapter Annual Meeting/Lecture*, Goa, India, December 17, 2019.
  55. Kodur, V. K. R., and Gil A. M. "Fire Resistance of Modern Concrete Structures: Emerging Trends and Research Needs", *XV Congreso Latinoamericano de Patología de Construcción y, XVII Congreso de Control de Calidad en la Construcción, CONPAT 2019*, Tuxtla Gutiérrez, Chiapas, México, Oct. 2019, **Plenary Presentation**.
  56. Kodur V.K.R. "Residual capacity assessment of fire damaged structures", *Sixth International Conference on Applications of Structural Fire Engineering (ASFE)*, 13-14 June 2019, Singapore, 2019.
  57. Kodur V.K.R. "Innovative Strategies for Enhancing Fire Performance of High Performing Materials and Structural Systems", *Materials Science and Engineering Workshop*, American University of Sharjah, UAE, April 29-30, 2019. **Plenary Presentation**.
  58. Kodur, V. "A numerical approach for evaluating residual capacity of fire damaged concrete members", *Plenary 3rd RN Raikar Memorial International Conference and Gettu-Kodur Symposium*, Mumbai, India, December 14-15, 2018, **Plenary Presentation**.
  59. Kodur, V.K.R., "Advanced Analysis Approaches for Enhancing Fire Resistance of Concrete Structures", *CSK Memorial Annual Lecture*, Indian institute of Technology-Madras, Chennai, India, December 17, 2018.
  60. Kodur, V.K.R., "Strategies for Enhancing Fire Safety in Built Infrastructure", *IC-IMPACTS Annual Research Conference*, Vancouver, Canada, June 13-14 2018.
  61. Kodur, V.K.R., and Naser M.Z., "Innovative strategies for overcoming fire hazard in critical transportation infrastructure", *PROTECT2017 – Sixth International Workshop on Performance, Protection & Strengthening of Structures under Extreme Loading*, Guangzhou, China, Dec. 8-10, 2017.
  62. Kodur V.K.R. "Lessons from WTC disaster for enhanced fire performance in high-rise buildings", *2nd Building Fire Safety Workshop*, Unisinos University, Brazil, June 22-25 2017, **Plenary Presentation**.
  63. Kodur V.K.R. "Strategies for mitigating fire hazard in transportation infrastructure", *Second International Fire Safety Symposium*, Naples, Italy, June 8-10, 2017.
  64. Kodur, V.R., "Post 9-11 Construction Strategies in the US for Enhanced Fire Safety", *ICS 2017, International Conference on Safety*, Gandhi Nagar, India, Jan. 3-4, 2017.– **Plenary Presentation**.

65. Kodur, V. and Bhatt, P. P. "Strategies for mitigating fire hazard in tunnel structures", The 6th International Workshop on Structural Life Management of Power Structures", KEPCO-RI, Daejeon, Korea pp. 1-12, Sept. 2016.
66. Kodur V.K.R. "Strategies for enhanced fire safety in high rise buildings", Third Mini Symposium and Workshop on Design for Fire Safety in Buildings and Built Infrastructure, American University of Sharjah, Sharjah, UAE March 13-14, 2016.
67. Kodur V.K.R. "Post 9-11 Construction in the US for enhanced fire safety in high rise buildings", 7th International Conference on Performance-based Fire and Fire Protection Engineering (ICPFPE 2015), Guangzhou, China, Dec. 2015, **Plenary Presentation**.
68. Kodur, V.K.R., Naser, M., Bhatt P. "Emerging Construction Materials for energy Installations", Proceedings: International Council of Academies of Engineering and Technological Sciences, (CAETS) - 2015 Convocation on "Pathways to Sustainability: Energy, Mobility and Healthcare Engineering", Springer, New Delhi Oct 13-14, 2015.
69. Kodur, V.R., "Innovative strategies for enhancing fire resistance of high performance concrete structures", Fourth Asian Conference on Ecstasy in Concrete (ACECON), Kolkata, India, October 8-10, 2015. **Plenary Presentation**.
70. Kodur, V.K.R. "Innovative strategies for enhancing fire resistance of concrete structures"; IUSSTF National Conference on Fire Resistance and Passive Fire Protection Systems, Central Building Research Institute, Roorkee, India, March 2015.
71. Kodur V.K.R. "Strategies for enhancing fire performance of concrete structures", 8th International Conference on Fire Safety of Buildings, Warsaw, Poland, November 5-8, 2014. – **Plenary Presentation**.
72. Kodur, V.R., "Designing concrete structures for fire safety", ICS 2014, International Conference on Safety, Gandhi Nagar, India, Dec. 2014 – **Plenary Presentation**.
73. Kodur V.K.R. "Innovative strategies for enhancing fire performance of FRP-strengthened concrete structures", Structural Engineering Convention 2014, New Delhi, India., Dec., 2014 – **Plenary Presentation**.
74. Kodur, V.R., "Structural performance of WTC buildings in 9-11 disaster: Lessons for concrete construction", Workshop on "Concrete in Extreme Environments", American Concrete Institute British Columbia Chapter, Vancouver, BC, May 2014.
75. Kodur, V.K.R., "World Trade Center Building Disaster: Lessons for engineering response"; Technical Seminar, Association of Consulting Civil Engineers, Mangalore, India, July 2014.
76. Kodur V.K.R. "Post 9-11 Construction for enhanced resiliency of high rise buildings in United States", Mini-Symposium and Workshop on Design for Fire Resistance in Structures, American University of Sharjah, UAE, May 14-15, 2014.
77. Kodur V.K.R. "Strategies for Mitigating Fire Problems in FRP-strengthened Concrete Structures", 7th National Symposium on Structural Fire Resistance (SSFR'2013), Nanjing, P. R. China, November 14-15 2013.
78. Kodur V.K.R. "Innovative Strategies for enhancing Fire Performance of Concrete Structures", 2013 International Symposium on Fire Science and Engineering, Wuhan, China, November 16-17, 2013.
79. Kodur V.K.R. "Strategies for Protecting FRP-strengthened Concrete Structures Against Fire Hazard", PROTECT-2013, Fourth International Workshop on Performance, Protection and Strengthening of Structures under Extreme Loading, Mysore, India, August 26-27, 2013.
80. Kodur V.K.R. "Post 9-11 Construction for Resilient Buildings in United States", COST Summer School, Naples,

Italy, June 2013.

81. Kodur, V.R., "Strategies for enhancing fire safety in buildings", International Conference on Safety, Gandhi Nagar, India, 2012. – **Plenary Presentation**.
82. Kodur, V.R., "Performance-based methodology for tracing the fire response of structural systems", Jubilee International Conference: Integration, Partnership, and Innovations in Construction Sciences and Education" Moscow State University of Civil Engineering, Moscow, Russia, 2011
83. Kodur, V.R., Raut, N., and Ahmed A. "Innovative strategies for enhancing fire performance of high performing materials and structural systems"; International Workshop on Fire Safety Engineering and Management, Muscat, Oman, 2011.
84. Kodur, V.R., "WTC disaster: Strategies for enhancing structural fire safety in high rise buildings"; International Forum on Ultra High-rise Buildings Fire Safety and Comprehensive Disaster Prevention Technology", Guangzhou & Chinese Academy of Sciences, Nansha, Guangzhou, China, 2010.
85. Kodur, V.K.R. and Dwaikat, M.M.S. "Performance-based methodology for tracing the response of restrained steel beams exposed to fire", COST Action C26 (European Co-operation in Science and Technology) International Conference: "Urban Habitat Constructions under Catastrophic Events", pp. 1-12, Naples, Italy, 2010.
86. Kodur V. and Dwaikat M., "Strategies for enhancing performance of high performing materials ", Fire Safety International Workshop, Ulster, Ireland, Feb. 2010.
87. Kodur, V.R., "Lessons for engineering response from WTC disaster"; Brazil (Sao Paulo) Institute of Engineers, Sao Paulo Brazil, March 2009.
88. Kodur V. and Raut N., "Design strategies for mitigating fire hazard in concrete structures", US-India Workshop on Designing Concrete Structures Under Extreme Loading Events" Mumbai, India, 2009.
89. Kodur V. and Raut N., "Strategies for enhancing fire resistance of concrete structures", 1<sup>st</sup> International Conference Advances in Concrete, Structural and Geotechnical Engineering, Pilani, India, 2009.
90. Kodur, V.R., Dwaikat M., "Fire induced spalling in concrete: State-of-the-art and research needs", 1<sup>st</sup> Int. Workshop on Concrete Spalling due to Fire Exposure; Proceedings: pp. 110-130, Leipzig, Germany, 2009.
91. Kodur, V.R., "Materials under fire hazard – Performance problems, knowledge gaps and research needs", International Symposium on Creating the Future of Fire Risk Management; New Delhi, India, Feb. 2009.
92. Kodur V.K.R., "Fire research at MSU for enhancing the performance of structural and material systems", 59<sup>th</sup> Annual Michigan Fire Inspectors Society Fall Educational Seminar, East Lansing, MI., U.S.A., September 2008.
93. Kodur, V.R., "WTC disaster: Stimulus for Innovations"; "The 2nd Chinese Conference on Fire Resistance and Corrosion of Steel Structures", Shanghai, China, 2007.
94. Kodur, V.R., Dwaikat M., Raut N., "Macroscopic finite element models for modeling the response of RC structures", FIB Workshop "Fire Design of Concrete Structures - From Materials Modeling to Structural Performance", Coimbra, Portugal, November 2007.
95. Kodur, V.R., "Construction materials under fire hazard – Performance problems, knowledge gaps and research needs", Urban Structure Resilience under Multi-Hazard Threats: Lessons of 9/11 and Research Issues for Future Work: NATO Advanced Research Workshop (Peace and Security); Moscow, Russia, July 2007.
96. Kodur, V.R., " WTC disaster: Lessons for engineering response"; INAE National seminar on Engineering Response to Hazards of Terrorism, Indian National Academy of Engineering, IIT Kanpur, India, September

2006.

97. Kodur, V.R., ""Fire resistance of concrete-filled HSS columns", Special Seminar, RIST Korea, Seoul, Korea, July 2005.
98. Kodur, V.R., "Lessons learned from World Trade Center building disaster", Special Seminar, Institute of Engineers, Bangalore, India, January 2004.
99. Kodur V.K.R. "Fire resistance research needs arising from WTC disaster"; International Conference on Development of Advanced Technologies for Building Fire Safety, ABRI, Taipei, Taiwan, 2003.
100. Kodur V.K.R. "Fire performance of high performing materials", International Conference on Building Fire Safety, Tainan, Taiwan, 2003.
101. Kodur, V.R., "Lessons for Australia from World Trade Center disaster", CSIRO Seminar, Sydney, Australia, October 2003.
102. Kodur, V.R., "World Trade Center disaster – Need for new materials and technologies", ISIS Annual Conference, Vancouver, BC, Canada, May 2003.
103. Kodur, V.R., "World Trade Center Disaster – Stimulus for innovations", CSCE 35<sup>th</sup> Annual Conference, Canadian Society of Civil Engineers, Moncton, NB, Canada, June 2003.
104. Kodur, V.R., " World Trade Center Disaster – Building Performance Study", CSCE National Lecture Tour, 5 Locations (St. Johns, NF; Montreal, QC; Toronto, ON; Winnipeg, MB; Vancouver, BC), Canada, February-March 2003.
105. Kodur, V.R., "Lessons learned from World Trade Center disaster", CSCE-NRC Professional Development Course, 5 Locations (St. Johns, NF; Montreal, QC; Toronto, ON; Winnipeg, MB; Vancouver, BC), Canada, February-March 2003.
106. Kodur, V.R., "Findings from World Trade Center Disaster Building performance investigation" CERES Conference, Liege, Belgium, September 2002.
107. Kodur, V.R., "World Trade Center Disaster – Innovations for high-rise buildings", Professional Engineers of Ontario Annual Conference, Ottawa, Ontario, Canada, April 2002.
108. Kodur, V.R., "World Trade Center Disaster - Building performance investigation findings", Ontario Building Officials Association Annual Conference, Windsor, Ontario, Canada. September 2002.
109. Kodur, V.R., "World Trade Center Disaster – Building performance assessment", APEGGA Annual Meeting, Calgary, Alberta, Canada, May 2003.
110. Kodur, V.R., "World Trade Center Disaster – Building performance assessment", APEGGA Annual Meeting, Edmonton, Alberta, Canada, May 2002.
111. Kodur, V.R.; Sultan, M.A. "Fire performance of high strength concrete columns", Proceedings: Workshop on High Performance Concrete and Fire Protection Strategies, NCKU, Tainan, Taiwan, 2000.
112. Kodur, V.R. "Fire resistance evaluation of high strength concrete structural elements" ACI International Workshop on Fire Performance of High Strength Concrete, Kuala Lumpur, Malaysia, 1997.

#### **Invited Presentations**

1. Kodur V.K.R., "Resiliency of Modern Concrete Structures Under Fire Hazard", ACI 123: Forum Panel - Resilience Inception: Building Resilience Within Resilience, ACI Fall Convention, Baltimore, MD, Nov. 26-29, 2025, **Invited Presentation.**

2. Kodur, V.K.R., "Strategies for Enhancing Fire Performance of Sustainable Concretes and Structures", AICTE-ATAT Online FDP on Revolutionizing Construction with Sustainable Advanced Materials, Synergy Institute of Technology, Bhubaneswar, Odisha, India, Nov. 10-15, 2025, **Invited Presentation.**
3. Kodur, V.K.R., "Approaches for Enhancing Sustainability and Fire Performance of Steel Structures through Composite Construction", AICTE-ATAT Online FDP on Revolutionizing Construction with Sustainable Advanced Materials, Synergy Institute of Technology, Bhubaneswar, Odisha, India, Nov. 10-15, 2025, **Invited Presentation.**
4. Kodur, V.K.R., "Tackling Fire Hazard in Critical Transportation Infrastructure", TransTech Talk Series # 32, KSCSTE - National Transportation Planning and Research Centre, Kerala, India, , Oct. 17, 2025, **Invited Presentation.**
5. Kodur, V.K.R., "Engineering New Generation of Concretes & Structures for Fire Safety", Special Seminar : Indian Concrete Institute- Bhubaneswar & Ultratech Cement Ltd, Bhubaneswar, India, July 20, 2024 - Invited Presentation.
6. Kodur, V.K.R., "Engineering New Generation of Concretes and Structures for Fire Safety", CEA seminar, Indian Institute of Technology (IIT) Delhi - Bombay, Mumbai, India, June 27 2025, **Invited Presentation.**
7. Kodur, V.K.R., "Advanced Engineering Approaches for Conditional Assessment and Refurbishment of Fire Damaged Structures", 15th Anniversary of Alconpat Journal, Revista Alconpat: 15 años de historia (2011 – 2025), Online Seminar, May 15, 2025. **Invited Presentation**
8. Kodur, V.K.R., "Engineering New Generation of Concretes and Structures for Fire Safety", National Seminar on "Recent Developments in Design & Construction Technologies – Building a Durable Future for the Five Elements", Association of Consulting Engineers, Bangalore, India, April 25-26, 2025. **Invited Presentation**
9. Kodur, V.K.R., "Designing Modern Concrete Structures for Fire Safety"; Seminar on "Recent Advances in Architectural Engineering and Digital Technologies for Tall Buildings", The Institution of Engineers (India), Telangana State Centre, March 28-29, 2025. **Invited Presentation.**
10. Kodur V.K.R. "Engineering New Generation of Materials and Structures for Fire Safety", Sharjah International Fire Technology & Engineering Conference (SIFTEC 2025) Series: Fire Safety Workshop, American University of Sharjah, UAE, April 9-10, 2025. **Invited Presentation.**
11. Kodur V.K.R. "Forensic Engineering for Conditional Assessment and Refurbishment of Fire Damaged Structures" Sharjah International Fire Technology & Engineering Conference (SIFTEC 2025) Series: Fire Safety Workshop, American University of Sharjah, UAE, April 9-10, 2025. **Invited Presentation.**
12. Kodur, V.K.R., "Need for Innovations for Mitigating Fire Hazard in Modern Concrete Structures", Special Seminar to, Brazilian Concrete Professionals, MSU, East Lansing, MI, January 14 2025, **Invited Presentation.**
13. Kodur, V.K.R., "Design Strategies for Mitigating Fire Hazard in Steel Bridges"; Special Seminar, Tongji University, Shanghai, China, October 9, 2024, **Invited Presentation.**
14. Kodur, V.K.R., "Designing Structures for Fire Safety – A series of Lectures"; SPARC Workshop on Structural Instability Analysis of Thin-Walled Steel Structures Under Fire-Induced Thermo-Mechanical Loading, Indian Institute of Technology, Bhubaneswar, India, July 11, 2024 - **Invited Presentation.**
15. Kodur, V.K.R., "Engineering New Generation of Concretes & Structures for Fire Safety", Special Seminar : Indian Concrete Institute- Bhubaneswar & Ultratech Cement Ltd, Bhubaneswar, India, July 20, 2024 - **Invited Presentation.**
16. Kodur, V.K.R., "Need for Innovative Strategies for overcoming Fire Performance Issues associated with Modern Materials, Structures & Construction Practices", "Vertical Urbanization with tall structures and

- construction challenges", Int. Faculty Development Program, SRM ISM, Chennai, India, August 27, 2024 - **Invited Presentation.**
17. Kodur, V.K.R., "Need for Innovations for Mitigating Fire Hazard in Modern Buildings and Structures", EWHA Woman's Univ (Korea) & MSU Joint Seminar on Structural Fire Safety, MSU, East Lansing, MI, June 12 2024
  18. Kodur, V.K.R., "Need for Innovations for Mitigating Fire Hazard in Modern Buildings and Structures", Identifying the Research Priorities in the area of Fire Safety of Built Environment in the Indian Context, Stake Holders Meeting, IISc, Bangalore, May 02 2024
  19. Kodur, V.K.R., "Strategies for Mitigating Fire Hazard in Critical Transportation Infrastructure", Presentation to Central Road Research Institute, New Delhi, India, February 29, 2024. - **Invited Presentation.**
  20. Kodur, V.K.R., "Strategies for Overcoming Fire Hazard in Critical Transportation Infrastructure"; 75 Years Seminar Series, Indian Institute of Science, Bangalore, India, May 10, 2024, **Invited Presentation.**
  21. Kodur, V.K.R., "MSU Research for Advancing Fire Safety in Modern Concrete Structures", Special Seminar to, Brazilian Concrete Professionals, MSU, East Lansing, MI, January 22, 2024.
  22. Kodur, V.K.R., "Strategies for Mitigating Fire Performance Problems in New Generation of Concretes and Structures", U of Waterloo MME Departmental Seminar Series, University of Waterloo, Waterloo, Canada, Nov. 16, 2023., **Invited Presentation.**
  23. Kodur V.K.R. "Conditional Assessment and Refurbishment of Fire Damaged Structures", 64th Brazilian Concrete Congress - "Materializing Innovation and Sustainability", Florianopolis, Brazil, Oct. 18-21 2023. - **Invited Presentation.**
  24. Kodur V.K.R. "Fire behavior of steel and composite steel and concrete bridges", ECCS TC3+SC4/WG4/Fire (EN 1994-1-2) Committee Meetings, Prague, Cze, Sept. 25-26 2023. - **Invited Presentation.**
  25. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", Special Seminar, Indian Institute of Technology (ISM), Dhanbad, India, July 14, 2023. - **Invited Presentation.**
  26. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", Special Seminar, Indian Institute of Technology - Madras, Chennai, India, July 10, 2023. - **Invited Presentation.**
  27. Kodur, V.K.R., "Strategies for Mitigating Fire Hazard in Critical Transportation Infrastructure", Presentation to Iowa Highway Research Board MSU Campus Visit, East Lansing, MI, April 6, 2023.
  28. Kodur, V.K.R., "Preparing for the Next Generation of Structural Engineering Profession", Interaction with Structural Engineering Institute (of ASCE) Graduate Student Chapter, BITS Pilani, India, December 8, 2022. - **Invited Presentation.**
  29. Kodur V.K.R., Matsagar V. and Singh, S.B. "Fire-Resistance Guidelines for Hybrid FRP Structural Components Made of Cellulosic Fibers from Agricultural Waste", Partnership 2020: U.S.-India Higher Education Cooperation Closing Symposium, New Delhi, India, August 2-3, 2022; **Invited Presentation.**
  30. Kodur, V.K.R., "Strategies for overcoming Fire Hazard in Structures Incorporating FRP Composites", Stake holders Meeting on FRP Composites for Civil Engineering Infrastructure, Michigan State University, East Lansing, MI, USA, June 20 2022.
  31. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", Special Seminar, Indian Institute of Technology (Banaras Hindu University), Varanasi, India, July 26, 2022. - **Invited Presentation.**

32. Kodur, V.K.R., "Strategies for Enhancing Fire Performance of Modern Concrete Structures", Special Seminar, R.V.College of Engineering, Bangalore, India, July 29, 2022. - **Invited Presentation.**
33. Kodur, V.K.R., "Advanced Analysis for Tracing Fire Induced Progressive Collapse of Steel Framed Buildings"; Seminar, Indian Institute of Science, Bangalore, India, May 17, 2022.- **Invited Presentation.**
34. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", Special Seminar, FAMU-FSU College of Engineering, Florida State university, Tallahassee FL April 8, 2022. - **Invited Presentation.**
35. Kodur, V.K.R., "Need for Innovative Strategies for overcoming Fire Performance Issues associated with Modern Materials, Structures & Construction Practices", New Frontiers in Structural Fire Engineering, Special Seminar, Indian institute of Technology-Hyderabad, India, July 14, 2022. - **Invited Presentation.**
36. Kodur, V.K.R., "FRP Materials and Sustainable Structures: Purpose, Objectives & Collaborative Opportunities", Workshop on FRP Materials and Sustainable Structures (Hybrid Meeting), BITS Pilani, India, March 4, 2022. **Key-note Presentation.**
37. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", Special Seminar, Ramaiah Institute of Technology, Bangalore, India, March 9, 2022. - **Invited Presentation.**
38. Kodur, V.K.R. "Need for Fire Safety in Built Infrastructure", Indo-US Symposium for Enhancing Fire Safety in Built-Infrastructure, Indian Institute of Technology (IIT) Delhi, New Delhi, India, December 9-11, 2021. **Invited Presentation.**
39. Kodur, V.K.R., and Venkatachari S. "FRP Composites in Civil Infrastructure – Emerging Trends, Research Needs", Virtual Workshop on Bio-Based Fiber Reinforced Polymer Composites for Civil Engineering Infrastructure , (Virtual Meeting), BITS Pilani, India, July 29, 2021. - **Invited Presentation.**
40. Kodur, V.K.R., "FRP Composites in Civil Infrastructure – Emerging Trends, Opportunities and Challenges", Stakeholders Meeting on Fire-Resistance Guidelines for Hybrid Fiber-Reinforced Polymer Structural Components, Indian Institute of Technology (IIT) Delhi, India, October 18, 2021 - **Invited Presentation.**
41. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", IAStructE Professional Development Webinar on Fire Hazard in Buildings and Bridges, Indian Association of Structural Engineers, September 16, 2021. - **Invited Presentation.**
42. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", 'Australian Special Webinar on Concrete in Fire', Concrete institute of Australia, September 16, 2021. - **Invited Presentation.**
43. Kodur, V.K.R. and Gil, A.M., Fire Resistance of Ultra-High Performance Precast Concrete Girders/Beams, Prestressed Concrete Institute Annual Convention, New Orleans, LO, May 18-22, 2021. - **Invited Presentation.**
44. Kodur, V.K.R., "Strategies for Enhancing Fire Performance of Modern Concrete Structures", International Online Conference and Exhibition India Construction Week –2020 'Reviving Construction Industry in Post COVID World', India, Dec. 2-5, 2020. - **Invited Presentation.**
45. Kodur, V.K.R., "Designing Modern Concrete Structures for Fire Safety", 'Distinguished speaker' at the CSIR-SERC skill development program: Advanced course on 'Longevity of Steel and RC structures against Fire and Corrosion (LSRSFC-2020), November 18th-20th 2020, SERC, Chennai, India. - **Invited Presentation.**
46. Kodur, V.K.R., "Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard", RILEM Online Conferences & Transfer of Knowledge (ROC&TOK) Series, Indian institute of Technology-Madras, India, May 23, 2020. - **Invited Presentation.**



47. Kodur, V.K.R., ""Strategies for Enhancing Fire Performance of Modern of Concrete Structures", Civil Engineering Graduate Seminar Series, Johns Hopkins University, Baltimore, MD, Nov.. 21, 2019. - **Invited Presentation.**
48. Kodur, V.K.R. "Fire Performance of High Performing Materials and Structures – Emerging Trends and Research Needs", PROTECT2019 – 7th International Colloquium on Performance, Protection, and Strengthening of Structures under Extreme Loading and Events, Whistler, BC, Canada, Sep. 13-14, 2019. - **Invited Presentation.**
49. Kodur, V.R., "Designing Modern Concrete Structures for Fire Safety", Workshop on Designing Structures for Fire Safety, Qatar University and General Admin. of Civil Defense, Doha, Qatar, Nov. 4, 2019. - **Invited Presentation.**
50. Kodur, V.R., "Fundamentals of Fire Safety Design and Effect of Fire on Materials and Structures", Workshop on Designing Structures for Fire Safety, Qatar University and General Admin. of Civil Defense, Doha, Qatar, Nov. 4, 2019. - **Invited Presentation.**
51. Kodur, V.K.R., ""Strategies for Enhancing Fire Performance of Modern of Concrete Structures", Civil Engineering Invited Seminar Series, University of Buffalo, Buffalo, NY, Sept. 27, 2019. - **Invited Presentation.**
52. Kodur, V.K.R., "Strategies for Enhancing Fire Performance of Modern of Concrete Structures", Special Technology Transfer Seminar, Indian institute of Technology-Hyderabad, India, May 17, 2019. - **Invited Presentation.**
53. Kodur, V.K.R., "Post 9-11 Construction Strategies in the United States for Enhanced Fire Safety in Buildings", 'Workshop on Strategies for Enhancing Fire Safety of Structures & Restoration Techniques', Nitte Meenakshi Institute of Technology-NMIT, Bangalore, India, May 22, 2019. - **Invited Presentation.**
54. Kodur, V.K.R., "Performance Based Methodology for Enhancing Fire Resistance and Resiliency of Modern Concrete Structures", Special Seminar, Hinman Consultants, San Francisco, USA, March 2019 - **Invited Presentation.**
55. Kodur, V.K.R., "Strategies for Overcoming Fire Hazard in FRP-strengthened Concrete Structures", Pacific Earthquake Engineering Research (PEER) Center, University of California-Berkeley, CA March 2019. - **Invited Presentation.**
56. Kodur, V.K.R., "Strategies for Mitigating Fire Hazard in Steel Bridges", Fire Protection Engineering Invited Seminar Series, University of Maryland, College Park, MD, April 8, 2019.- **Invited Presentation.**
57. Kodur, V.K.R., "Strategies for Enhancing Fire Resistance and Resiliency of Modern Concrete Structures", Special Technology Transfer Seminar, Indian Concrete Institute, Bengaluru Centre, India, May 21, 2019. - **Invited Presentation.**
58. Kodur, V.K.R., "Strategies for Overcoming Fire Hazard in FRP-strengthened Concrete Structures", International Symposium on "Recent Advances in Concrete Construction and Preservation", 3rd K. P. Pradeep Symposium on Pioneering Science and Development for Construction, Chennai, India, December 18, 2018 - **Invited Presentation.**
59. Kodur, V.K.R., "Strategies for Enhancing Fire Performance of Modern of Concrete Structures", Special Research Seminar, Indian institute of Technology-Kharagpur, India, July 14, 2018. - **Invited Presentation.**
60. Kodur, V.K.R., "Residual capacity assessment of fire damaged concrete members", Technical Seminar, Housing & Development Board, Singapore, July 11 2018. - **Invited Presentation.**
61. Kodur, V.K.R., "Strategies for Enhancing Fire Resistance and Resiliency of Modern of Concrete Structures", Seminar, Skidmore, Owings & Merrill Llp, San Francisco, CA 94111, May 2018. - **Invited Presentation.**

62. Kodur, V.R., "Performance of Materials and Structures under Fire Hazard" Short Course on Fire Safety Design Of Buildings, Performance Based Approach And Codes Of Practice; The Innovative Fire Engineering (IFE) Group, The University of Melbourne, April 2018 - **Invited Presentation**.
63. Kodur, V.R., "Post 9-11 Construction Strategies in the US for Enhanced Fire Safety", Seminar, University of Melbourne, Australia, April 26, 2018. - **Invited Presentation**.
64. Kodur, V.K.R., "Strategies for Overcoming Fire Hazard in FRP-strengthened Concrete Structures"; Seminar, Indian Institute of Science, Bangalore, India, March 2018. - **Invited Presentation**.
65. Kodur, V.K.R., "Strategies for Enhancing Fire Resistance and Resiliency of Modern of Concrete Structures", Technical Seminar, Nanyang Technical University, Singapore, July 2017. - **Invited Presentation**.
66. Kodur, V.K.R., "Strategies for Enhancing Fire Resistance and Resiliency of Modern of Concrete Structures", Special Research Seminar, Chongqing University, Chongqing, China, December, 2017. - **Invited Presentation**.
67. Kodur, V.K.R., "World Trade Center Building Disaster: Lessons for engineering response"; Technical Seminar, National institute of Technology- Jamshedpur, Jamshedpur, , India, October 2017. - **Invited Presentation**.
68. Kodur, V.K.R., "Strategies for Enhancing Fire Resistance and Resiliency of Modern of Concrete Structures", Technical Seminar, Nanyang Technical University, Singapore, July 2017. - **Invited Presentation**.
69. Kodur, V.K.R., "Strategies for Enhancing Fire Resistance and Resiliency of Modern of Concrete Structures", Special Seminar, Jain University, Bangalore, India, July 2017. - **Invited Presentation**.
70. Kodur, V.R., "World Trade Center Disaster: Lessons for Fire Safety in Buildings", Mini-Symposium and Workshop on Design for Fire Resistance in Structures, Qatar University, Doha, Qatar, March 7-8, 2017. - **Invited Presentation**.
71. Kodur, V.K.R., "Residual capacity assessment of fire damaged concrete structures", Special Research Seminar, South China University of Technology, Guangzhou , China, April, 2017. - **Invited Presentation**.
72. Kodur, V.R., Naser, M. " Innovative Strategies for Enhancing Fire Performance of Concrete Structures"; Seminar, South East University, Nanjing, China, April 2017. - **Invited Presentation**.
73. Kodur, V.R., Naser, M. "Strategies for mitigating fire hazard in steel bridges"; Seminar, Indian Institute of Science, Bangalore, India, January 2017. - **Invited Presentation**.
74. Kodur, V.K.R., "World Trade Center Building Disaster: Lessons for engineering response"; Technical Seminar, Defense Research and Development Organization (DRDO), Hyderabad, India, July 2016. - **Invited Presentation**
75. Kodur V.K.R. "Properties of concrete at elevated temperatures: Test methods and interpretation of test results", AISC Fire Committee meeting, Chicago, IL, Nov. 2016. - **Invited Presentation**
76. Kodur V.K.R. "Post 9-11 Construction in the US for enhanced fire safety in high rise buildings", Special Seminar, Hong Kong Building Officials, Hong Kong, May 2016. - **Invited Presentation**
77. Kodur V.K.R. "Properties of concrete at elevated temperatures", AISC Fire Committee meeting, Chicago, IL, June 2016. - **Invited Presentation**
78. Kodur, V.K.R., "Innovative strategies for enhancing fire performance of high performing concrete materials and structural systems"; International Workshop on Civil Infrastructure and Structural Materials, NITK, Surathkal, India, July 2014. - **Invited Presentation**
79. Kodur, V.K.R., "Challenges and Opportunities in the area of Structural Engineering"; International Workshop

- on Civil Infrastructure and Structural Materials*, NITK, Surathkal, India, July 2014. - **Invited Presentation**
80. Kodur V.K.R. "Enhancing fire resistance of HSS columns through concrete-filling", *AISC HSS Committee meeting*, Chicago, IL, December 2013. - **Invited Presentation**
  81. Kodur, V.R., "World Trade Center disaster: Lessons for Engineering Response", *PROTECT-2013, Fourth International Workshop on Performance, Protection and Strengthening of Structures under Extreme Loading*, Mysore, India, August 26-27, 2013.- **Invited Presentation**
  82. Kodur, V.K.R., "Innovative strategies for enhancing fire performance of high performing materials and structural systems", Special Research Seminar, *South China University of Technology*, Guangzhou, China, May, 2013. - **Invited Presentation**
  83. Kodur, V.R., "World Trade Center Disaster: Lessons for Engineering Response", *Mini-Symposium and Workshop on Design for Fire Resistance in Structures*, American University of Sharjah, UAE, December 11-12, 2012.- **Invited Presentation**
  84. Kodur, V.R.. "Innovative strategies for enhancing fire performance of high performing materials and structural systems"; *Colloquium 'Structural Engineering'*, *ETH, Zurich*, Switzerland, November 21, 2012. - **Invited Presentation**
  85. Kodur, V.R., "Lessons from World Trade Center building collapse", *MSU-ASCE Chapter*., MSU, East Lansing, MI, November 26 2012. - **Invited Presentation**
  86. Kodur, V.R.. "Innovative strategies for enhancing fire performance of construction materials"; *Special Seminar, Central Building Research Institute*, Roorkee, India, July 2012. - **Invited Presentation**
  87. Kodur V.K.R. "Design equations for evaluating fire resistance of concrete-filled steel HSS columns", AISC Task (Fire) Committee meeting, Chicago, IL, June 2012. - **Invited Presentation**
  88. Kodur, V.R.. "Performance problems of concrete materials under fire hazard", *Seminar, D.I.S. – Dipartimento di Ingegneria Strutturale, Politecnico di Milano*, Milano, Italy, June 2012. - **Invited Presentation**
  89. Kodur, V.R.. "Strategies for enhancing fire performance of high performing materials and structural systems"; *Seminar, Indian Institute of Science*, Bangalore, India, December 2011. - **Invited Presentation**
  90. Kodur, V.R., "World Trade Center disaster: Lessons for Engineering Response", *Lecture: Association of Consulting Civil Engineers (India) – Bangalore Centre and ASCE - India (Southern) Section*, Bangalore, India, December 2011. - **Invited Presentation**
  91. Kodur V.K.R. "Temperature dependent thermal and mechanical property relations for A325 and A490 bolts", *AISC Task (Fire) Committee meeting*, Chicago, IL, Nov. 2011.- **Invited Presentation**
  92. Kodur, V.R. "Strategies for overcoming fire hazard in built infrastructure", University Seminar, City University, Hong Kong, October, 2011. - **Invited Presentation**
  93. Kodur, V.R., "World Trade Center disaster: Lessons for Engineering Response", Special Seminar: One Book Community, East Lansing, MI, September 2011. - **Invited Presentation**
  94. Kodur, V.K.R. and Dwaikat M, "Sensor technologies for mitigating fire hazard in built infrastructure", US (NSF)- Tunisia Workshop on Sensing Technologies, Tunis, Tunisia, Dec. 2010.
  95. Kodur, V.K.R., "Need for Innovative Strategies for overcoming fire problems in high performing materials", Guest Lecture, IIT-Roorkee, Roorkee, India, July 2010. - **Invited Presentation**
  96. Kodur, V.R., "Lessons for India from World Trade Center disaster", Central Building Research Institute, Roorkee, India, July 2010. - **Invited Presentation**

97. Kodur, V.K.R., "Performance based design approaches for structural for fire safety", University of Sao Paulo, WPI Sao Carlos, Brazil, March, 2010. - **Invited Presentation** \_
98. Kodur, V.K.R., "Performance problems of high performing materials under fire conditions", US (NSF)- India (IUSTF) Workshop on Innovative Materials and Structural Systems for Resilient and Sustainable Built Infrastructure, IIT-Bombay, Mumbai, India, Dec. 2009. - **Invited Presentation**
99. Kodur, V.K.R., "Performance based design approach for structural for fire safety", WPI Seminar Series, WPI, Worcestor, MA, Oct. 2009. - **Invited Presentation**
100. Kodur, V.R., "Performance of concrete structures under fire hazard", Special Seminar, Korea Electric Power Research Institute, Daejeon, Korea, March 2009. - **Invited Presentation**
101. Kodur, V.K.R., "Fire Safety Design of Structural Systems", CEE Seminar Series, Vanderbilt University, Nashville TN, Feb 2008. - **Invited Presentation**
102. Kodur, V.K.R., "Designing Structures for Fire Safety", CEE Seminar Series, University of Michigan, Ann Arbor, MI, March 2008. - **Invited Presentation**
103. Kodur, V.K.R., "Macroscopic finite element approach for modeling fire response of concrete structures", South China University of Technology, Guangzhou, China, May, 2008. - **Invited Presentation**
104. Kodur, V.K.R., "Macroscopic finite element approach for tracing the fire response of concrete structures", Tongji University, Shanghai, China December, 2007. - **Invited Presentation**
105. Kodur V.K.R., "Fire safety design of structural systems", NIST-BFRL, Gaithersburg, MD., U.S.A., April 2006. - **Invited Presentation**
106. Kodur V.K.R., "Research on high performance concrete under fire conditions", 51<sup>st</sup> Annual PCI Convention, Palm Springs, CA, October 2005. - **Invited Presentation**
107. Kodur V.K.R. "Assessment of high strength concrete performance under fire conditions – causes, concerns, complexities and cures", Special Seminar, Concordia University, Montreal, QC, August 2004. - **Invited Presentation**
108. Kodur, V.R., "Lesson from World Trade Center Disaster and research needs for improved fire safety in buildings", SFPE Annual Meeting, Quebec City, Quebec, August 2004. - **Invited Presentation**
109. Kodur V.K.R. "Performance of high performing materials under fire conditions", Special Seminar, Concordia University, Montreal, QC, August 2004. - **Invited Presentation**
110. Kodur, V.R., "An engineering dissection of the World Trade Center Disaster", Annual Engineering Week Meeting, Sudbury, Ontario, Canada, February 2004. - **Invited Presentation**
111. Kodur, V.R., "Engineering issues in the collapse of the WTC Buildings"; IIT Seminar, Indian Institute of Technology, Kanpur, India, January 2004. - **Invited Presentation**
112. Kodur, V.R., "Engineering issues in the collapse of the WTC buildings"; Special Lecture, Thomson Corporation, Chennai, India, January 2004. - **Invited Presentation**
113. Kodur, V.R., "Role of fire and structural issues in the collapse of the WTC buildings"; Seminar, Tata Consulting Engineers, Bangalore, India, January 2004. - **Invited Presentation**
114. Kodur, V.R., " World Trade Center Building Performance Study", Seminar, Indian Institute of Science, Bangalore, India, January 2004. - **Invited Presentation**

- 115.Kodur, V.R., "World Trade Center Disaster building performance ", Ontario Building Officials Association, Ottawa Chapter Meeting, Nepean, Ontario, Canada, November 2003. - **Invited Presentation**
- 116.Kodur, V.R., "An Engineering look at the World Trade Center disaster", PEO (Northern Ontario) Chapter Annual Meeting, Timmins, Ontario, Canada, September 2003. - **Invited Presentation**
- 117.Kodur, V.R., "World Trade Center Disaster – An engineering assessment", PEO (Grand River) Chapter Annual Meeting, Waterloo, Ontario, Canada, June 2003. - **Invited Presentation**
- 118.Kodur, V.R., "World Trade Center Disaster – Building performance study", University of Waterloo Lecture Series, Waterloo, Ontario, Canada, June 2003. - **Invited Presentation**
- 119.Kodur, V.R., "World Trade Center Disaster – building performance study", PEO (Eastern Ontario) Chapter Annual Meeting, Cornwall, Ontario, Canada, April 2003. - **Invited Presentation**
- 120.Kodur, V.R., "Key findings from wtc building performance investigation ", NRC Outstanding Achievement Awards Symposium – Media, Public and NRC Senior Management, Ottawa, Ontario, Canada. February 2003. - **Invited Presentation**
- 121.Kodur, V.R., "World Trade Center Disaster – Building Performance Study", PEO Kingston Chapter Annual Meeting, Kingston, Ontario, Canada, November 2002. - **Invited Presentation**
- 122.Kodur, V.R., "World Trade Center Disaster – Building Performance Study", Queen's University Lecture Series, Kingston, Ontario, Canada, November 2002. - **Invited Presentation**
- 123.Kodur, V.R., "World Trade Center Disaster - Building Performance Investigation", Ove ARUP Partners Meeting Annual Meeting, London, U.K., September 2002. - **Invited Presentation**
- 124.Kodur, V.R., "World Trade Center Disaster - Building performance investigation", Federal Technology Institute Meeting, Zurich, Switzerland, September 2002. - **Invited Presentation**
- 125.Kodur, V.R., and Milke J. " World Trade Center Disaster – Building performance study", ASCE Professional Development Course, 2 Locations (Chicago, IL; Los Angeles, CA), USA, July- August 2002. - **Invited Presentation**
- 126.Kodur, V.R.; Thomas R.T. "World Trade Center Disaster – Building performance assessment", Academy of Engineering Annual Meeting, Ottawa, Ontario, Canada, May 2002. - **Invited Presentation**
- 127.Kodur, V.R., "Findings from World Trade Center Disaster investigation", NRC-Media Presentation, Ottawa, Ontario, Canada, May 2002. - **Invited Presentation**
- 128.Kodur, V.R., "World Trade Center Disaster – Building performance study", SFPE Ottawa Chapter Annual Meeting, Ottawa, Ontario, Canada, May 2002. - **Invited Presentation**
- 129.Kodur, V.R., "Key Findings from WTC Building performance study", Press Conference (to Media), Edmonton, Alberta, Canada, May 2002. - **Invited Presentation**
- 130.Kodur, V.R., "World Trade Center Disaster – Building performance study", SFPE Ottawa Chapter Annual Meeting, Ottawa, Ontario, Canada, May 2002. - **Invited Presentation**
- 131.Kodur V.K.R. "Fire resistance evaluation of large-scale structural systems", Proceedings: NIST Workshop Research Needs for Fire Resistance Determination and Performance Prediction, (Special Publication NIST IR 6890), Gaithersburg, MD., U.S.A., 2002. - **Invited Presentation**
- 132.Kodur, V.R., "World Trade Center Disaster – Building performance investigation", AISC Fire Safety Steering Committee Chicago, IL., U.S.A., May 2002. - **Invited Presentation**

- 133.Kodur, V.R., "World Trade Center Disaster – BPAT study", NRC Presentation, Ottawa, Ontario, Canada, November 2001. - **Invited Presentation**
- 134.Kodur, V.R. "Fire performance requirements for high performing materials", Innovations in Concrete (ICON) Conference, Whistler, BC, Canada, 2001. - **Invited Presentation**
- 135.Kodur, V.R. "Designing concrete-filled steel columns for fire endurance", IRAP meeting, Regina, SK., Canada, 1999. - **Invited Presentation**
- 136.Kodur, V.R. "Fire performance of high strength concrete columns", ACI Spring Convention, Chicago, IL., U.S.A., 1999. - **Invited Presentation**
- 137.Cheng, F-P.; Wang, T.C.; Kodur, V.R. "Stress-strain curves for high strength concrete at elevated temperatures", ACI Spring Convention, Chicago, Illinois, 1999.- **Invited Presentation**
- 138.Kodur, V.R. "Fire resistance evaluation of structural elements", International Workshop on Structural Fire Resistance Facilities (Gaithersburg, MD., U.S.A., 1999) pp. 1-24,(IRC-ORAL-286). - **Invited Presentation**
- 139.Kodur, V.R. "Performance of high strength concrete columns exposed to fire", Spa's National Capital Region Seminar (Ottawa, Ontario, 1998), 1998.
- 140.Kodur, V.R. "Studies on the fire resistance of high performance concrete at the NRC, Canada", NIST Meeting on Fire Performance of High Strength Concrete, Gaithersburg, MD., U.S.A., 1997. - **Invited Presentation**
- 141.Kodur, V.R. "Performance of high strength concrete at elevated temperatures", ACI Committee 216 Seattle, WA., U.S.A., 1997. - **Invited Presentation**
- 142.Kodur, V.R. "Research in fire resistant construction", Karnataka Power Corporation Bangalore, India, 1997. - **Invited Presentation**
- 143.Kodur, V.R. "Fire resistance of concrete-filled HSS columns", Oral presentation to CSCC and CISC Engineering Staff Toronto, Ontario, Canada, 1996. - **Invited Presentation**
- 144.Kodur, V.R.; Campbell, J.S. "Fire resistance of precast prestressed concrete elements", CPCI Technical Committee and CPCI Board of Directors Rolando, Florida, U.S.A., 1996.
- 145.Su, J.Z.; Kodur, V.R. "NFL's programs and full-scale fire test facilities, and fire resistance design of structural members", Centre for Building Studies, Concordia University National Fire Laboratory (Ottawa & Almont), 1995. - **Invited Presentation**
- 146.Kodur, V.R. "Canada's National Fire Laboratory - overview and programs and fire protection for structural members", Oral Presentation and NFL Tour for Humber College Students (M-59, NFL, 1995)
- 147.Kodur, V.R. "Structural fire protection to steel columns", Bangalore University (Bangalore University, 1995) pp. 1-23,(Presented to the post graduate students / faculty of Civil Engineering at Bangalore University, Bangalore, India). January 24, 1995. - **Invited Presentation**
- 148.Lie, T.T.; Kodur, V.R. "Fire resistance of FRP-reinforced concrete structural members", CSA Technical Committee on the Design of FRP Structural Components and Reinforcing Materials for Buildings Toronto, Ontario, Canada, 1994, pp. 1-2, (Also published in Construction Innovation, v. 2, no. 1, p. 13.) - **Invited Presentation**
- 149.Kodur, V.R. "Structural fire protection", Presented at the Civil Engineering Department, Queen's University, Kingston, Ontario, 1994. - **Invited Presentation**

## Media Interviews

### Newspapers

Newspaper	Interview date	Published date	Interviewed by	Subject/Comments
The New York Times <a href="https://www.nytimes.com/2025/02/04/us/los-angeles-fire-hydrants-substandard.html">https://www.nytimes.com/2025/02/04/us/los-angeles-fire-hydrants-substandard.html</a>	Jan. 27, 2025	Jan. 27, 2025	<a href="#">Mike Baker</a>	Los Angeles wild fires – Role fo fire hydrants
<a href="#">Public News Service</a> MSU studies fire-resistant structures, amid house fires uptick   <a href="#">Public News Service</a>	July 2025	July 25, 2025	<a href="#">Chrystal Blair</a>	MSU studies fire-resistant structures, amid house fires uptick
Los Angeles Times: <a href="https://www.latimes.com/california/story/2024-06-05/fire-hydrant-thefts-los-angeles-county">https://www.latimes.com/california/story/2024-06-05/fire-hydrant-thefts-los-angeles-county</a>	June 4 2024	June 25 2024	<a href="#">Andrew J. Campa</a>	Thieves are stealing L.A. County fire hydrants by the hundreds. Utility is now trying to outsmart them
Dainik Jagran News, Jamshedpur, India, Part 1	May 16 2024	May 17 2024		NIT Jamshedpur Steel Workshop News Coverage
Dainik Jagran News, Jamshedpur, India, Part 2	May 16 2024	May 17 2024		NIT Jamshedpur Steel Workshop News Coverage
<a href="https://www.wilx.com/2024/03/29/msu-engineer-gives-outlook-collapsed-baltimore-bridge-rebuild/">https://www.wilx.com/2024/03/29/msu-engineer-gives-outlook-collapsed-baltimore-bridge-rebuild/</a>	March 29, 2024	\ March 29, 2024	Riley Connell, WILX 10 - TV	MSU engineer gives outlook on collapsed Baltimore bridge rebuild
MSU EGR Website – <a href="https://www.egr.msu.edu/news/2023/09/18/venkatesh-kodur-named-fellow-royal-society-canada">https://www.egr.msu.edu/news/2023/09/18/venkatesh-kodur-named-fellow-royal-society-canada</a>	Sept.. 16, 2023	Sept.. 18, 2023	Pat Mroczek	Kodur named Fellow of Canadian Academy of Sciences
<a href="#">Popular Mechanics</a> – <a href="https://www.popularmechanics.com/technology/infrastructure/a44201682/what-could-have-prevented-i-95-bridge-collapse/">https://www.popularmechanics.com/technology/infrastructure/a44201682/what-could-have-prevented-i-95-bridge-collapse/</a>	June 14, 2023	June 16, 2023	Mannickarottu, Manasee	What-could-have-prevented-i-95-bridge-collapse
Washington Post - <a href="https://www.washingtonpost.com/transportation/2023/06/12/philadelphia-i95-bridge-collapse/">https://www.washingtonpost.com/transportation/2023/06/12/philadelphia-i95-bridge-collapse/</a>	June 12, 2023	June 12, 2023	<a href="#">Michael Laris</a>	Why I-95 Bridge Collapsed
MSU Today <a href="https://msutoday.msu.edu/news/2022/venkatesh-kodur-receives-fulbright-specialist-award">https://msutoday.msu.edu/news/2022/venkatesh-kodur-receives-fulbright-specialist-award</a>	Oct. 24, 2022	Nov. 1, 2022	Pat Mroczek	Venkatesh Kodur to research fire resistance materials in India
<a href="#">Venkatesh Kodur</a>	Oct. 24, 2022	Nov. 1, 2022	Pat Mroczek	Venkatesh Kodur

<a href="#">receives Fulbright Specialist Award (msu.edu)</a>				receives Fulbright Specialist Award
MSU Today <a href="https://msutoday.msu.edu/news/2019/india-recognizes-msu-professor-for-work-in-advancing-fire-safety/">https://msutoday.msu.edu/news/2019/india-recognizes-msu-professor-for-work-in-advancing-fire-safety/</a>	Jan. 02, 2019	Jan. 15, 2019		India recognizes MSU professor for work in advancing fire safety
<a href="https://msutoday.msu.edu/news/2017/renowned-msu-expert-on-london-fire/">https://msutoday.msu.edu/news/2017/renowned-msu-expert-on-london-fire/</a>	June 12, 2017	June 14, 2017		Renowned MSU expert on London fire
Tech Century/ Engineering Society of Detroit	May 18, 2016	May 19, 2016		<a href="http://msutoday.msu.edu/">http://msutoday.msu.edu/</a>
<a href="http://msutoday.msu.edu/">http://msutoday.msu.edu/</a>	May 22, 2016	May 26, 2016		CEE Chair Position
Mangalorean	July 28, 2014	July 28, 2014	Alfie D'Souza,	<a href="http://www.mangalorean.com/news.php?newstype=broadcast&amp;broadcastid=499820">http://www.mangalorean.com/news.php?newstype=broadcast&amp;broadcastid=499820</a>
The State News	March 2013	March 2013		E Lansing "Smoke effects on health/environment"
www.Bilkonline.com	March 02 2013	March 03 2013		Fire Safety (IIT-G)
Daily Bhaskar.com	March 02 2013	March 03 2013		Fire Safety (IIT-G)
DNA, India	March 02 2013	March 03 2013		Fire Safety (IIT-G)
The Times of India	March 02 2013	March 04 2013	Parth Shastri	Fire Safety (IIT-G)
AUS News Letter, UAE	Dec. 11 2012	Dec. 12 2012		Fire safety workshop
The State News	September 13 2012	September 14 2012	L. Keyes	E Lansing "St. Annes Loft's building collapse"
<a href="https://msutoday.msu.edu/news/2010/msu-hosts-international-conference-in-structural-fire-engineering/">https://msutoday.msu.edu/news/2010/msu-hosts-international-conference-in-structural-fire-engineering/</a>	May 22, 2010	May 24, 2010		MSU hosts international conference in structural fire engineering
The State News	June 1-2 2010	June 3 2010	Emily Wilkins	6th Int. conf. on Structures in Fire
AP	August 2 2007	August 3 2007		MN I-35 bridge collapse
Lansing State Journal	August 1 2007	August 2 2007	M. Miller	MN I-35 bridge collapse
The State News	August 2 2007	August 3 2007	C. Trudell	MN I-35 bridge collapse
Lansing State Journal	June 13 2007	June 10 2007	M. Miller	Fire facility Dedication
The State News	June 12 2007	June 13 2007	B. McVicar	NSF workshop
Hindustan Times, India	Sept. 25 2006	Sept. 26 2006		
The Times of India	Sept. 25 2006	Sept. 26 2006		
Economic Times, India	Sept. 26 2006			
Aaj Tak	Sept. 25 2006	Sept. 26 2006		
Star of Mysore Mysore, India	January 12 2004	January 10 2004	M.R. Shivanna News Editor	
Mysore Mitra Mysore, India	January 11 2004	January 9 2004	M.R. Shivanna News Editor	
Vijaya Karnataka	January 2004 - 2,	January 2004 – 3, 4,	Suresh	



Bangalore, India	3, and 4 <sup>th</sup>	and 5 <sup>th</sup>		
Deccan Herald, Bangalore, India	January 14 2004	January 18 2004	Hemali Chaapia	IEE meeting
Deccan Herald, Bangalore, India	January 10 2004	January 12 2004	Hemali Chaapia	
Times of India, Bangalore, India	January 7 2004	January 8 2004	Times News Net-work, Bangalore	
Deccan Herald, Bangalore, India	January 8 2004	January 9 2004	Hemali Chaapia	IEE meeting
The Daily Press, Timmins, ON	August 29 2003	August 30 2003	Debbie Pell	Through PEO local Chapter
The Daily Press, Timmins, ON	September 4 2003	September 5 2003		
The Standard Free Holder, ON	April 17 2003	April 17 2003		
Telegraph Journal, NB	June 6 2003	June 10 2003	Andrew Phillips	
The Record, ON	June 26 2003	June 26 2003	Lianne Elliott	
The Telegram, NF	February 27 2003	February 28 2003	Moiria Baird	
Times & Transcript, NB	June 6 2003	June 10 2003	Kristen Vernnon	
Press Conference	May 30 2002		APEGGA, AB	
Press Release (NRCC)	May 6 2002		NRC, Ottawa	
Whig Standard	Nov. 3, 2002	Nov. 5, 2002	Sarah Crosbie	
Ottawa Citizen	April 21 2002	April 26 2002	Kelly Egan	
Globe and Mail	May 1 2002	May 2 2002	John Ibbittson	
National Post	April 21 2002	April 22 2002	Kelly Egan	
Le Droit	May 13 2002	May 14 2002		
Edmonton Sun	May 1 2002	May 2 2002		
Calgary Herald	November	November		
India Abroad	May 6 2002	May 13 2002		
Ottawa Sun	Sept 11 2002	Sept 11 2002		
Ottawa Citizen	October 22 2001	October 26 2001		

### Media Interviews

#### Radio

Radio	Interview date	Aired date	Interviewed by	Comments
NPR-MI Radio <a href="https://www.michiganpublic.org/podcast/stateside/2024-04-17/stateside-podcast-is-the-mackinac-bridge-vulnerable-to-a-freighter-strike">https://www.michiganpublic.org/podcast/stateside/2024-04-17/stateside-podcast-is-the-mackinac-bridge-vulnerable-to-a-freighter-strike</a>	April 17 2024	April 17 2024	Laura Davis	Stateside Podcast: Is the Mackinac Bridge vulnerable to a freighter strike
NPR – Washington DC*	August 2 2007	August 3 2007	Tracy Wahl	MN I-35 bridge collapse
1240 Lansing*	August 2 2007	August 2 2007	Big Talker	MN I-35 bridge collapse
MSU Radio*	June 15 2007	June 15 2007	Russ White	Spartan Podcast.com
1320 WILS Lansing*	June 9 2007	June 9 2007		NSF Fire workshop
CBC Morning Radio	May 1 2002	May 14 2002	John Lecharity	
CFRA 580	May 1 2002	May 1 2002	Mark Sutlex & Janice Dean	
Niagara Falls	May 1 2002	May 1 2002		
CBC Calgary	May 30 2002	May 30 2002		
CJOB68 –Winnipeg	Sept 10 2002	Sept 10 2002		
CBC Morning Radio	Dec 10 2001	Dec 10 2001	John Lecharity	

## TV

TV	Interview date	Aired date	Interviewed by	Comment
Big Ten Network	August 2017	Nov. 2017	Chris Weber	Video on fire research
WKAR	Sept. 2017	Dec. 2017	Carole Yancho	Video on MSU's fire research to mitigate fire hazard in built infrastructure (as part of UDP awards)
MSU Presidents Report	Oct. 2016/Nov. 22 2016	March 2017	Jim Peck/Siciliano A.	research to advance fire safety
Discovery Channel* - Fire Resisting Concretes	July 02 2008	July 03 2008	James Williams	<a href="http://dsc.discovery.com/news/news.html?clik=wwTkr">http://dsc.discovery.com/news/news.html?clik=wwTkr</a>
WILXTV10 – Lansing*	August 2 2007	August 2 2007		MN I-35 bridge collapse
WLNSTV6 – Lansing*	August 2 2007	August 2 2007 - Live		MN I-35 bridge collapse
WLNSTV6 – Lansing*	June 12 2007	June 12 2007	Preeti	Fire Facility dedication
WILXTV10 – Lansing*	June 11 2007	June 11 2007		Potterville (MI) Fire
WLNSTV6 – Lansing*	June 10 2007	June 10 2007	Preeti	Fire Workshop
Channel 8 Ottawa*	August 24 2005	September 7 2005		Fire Research, Buildings
CBC National	May 1 2002	May 1 2002		Peter Mansbridge
CTV National news	May 1 2002	May 1 2002		Llyod Robertson
CBC Canada Now	May 1 2002	May 1 2002		I H Singh
CBOT Ottawa	May 1 2002	May 1 2002		
CTV Canada AM	May 1 2002	May 2 2002		Canada AM
Global News	Nov 6 2001	Nov 6 2001		
CJOH Ottawa	May 14 2002	May 14 2002	Chris Day	
CJOH Ottawa	May 14 2002	May 14 2002	R.J. Hendrick	
CBC News World	May 1 2002	May 2 2002		
City TV	May 14 2002	May 14 2002		
CHRO	May 14 2002	May 14 2002		
CTV Cable news	May 2 2002	May 2 2002		
CBC Ottawa	Nov 15 2001	Nov 18 2001		
CBC News World	Nov 15 2001	Nov 18 2001		
CBET Windsor	Sept 30 2002	Oct 1 2002		Canada Now
CJOH Ottawa	Dec 21 2001	Dec 23 2001		

## Magazines and Web sites

Magazine/Website	Interview date	Printed date	Organisation	Comments
Official, the International Association of Plumbing and Mechanical Officials	July 14, 2025	-----	Matt Chapuran, Boston-based freelance writer,	Innovations in fire hydrant technology
Guardian Service - <a href="https://guardianservice.com/home-insurance/house-fire-statistics/">https://guardianservice.com/home-insurance/house-fire-statistics/</a>	June 2025	June 2025	Jason Sam Jr. and team	House fire statistics - 2025
MSU Today <a href="https://msutoday.msu.edu/news/2025/ask-the-expert-is-your-home-at-risk-of-a-house-fire">https://msutoday.msu.edu/news/2025/ask-the-expert-is-your-home-at-risk-of-a-house-fire</a>	June 2025	July 2025	MSU - <a href="#">Emilie Lorditch</a>	Ask the expert about reducing your risk of house fires
IIT-Tirupati & ICCMS - 2025 Conference <a href="https://youtu.be/LOgYy0">https://youtu.be/LOgYy0</a>	July 4, 2025	July 14, 2025	IIT-Tirupati	Future Directions in Civil Engineering

<a href="#">1BP0c?si=u5_PzW74obf9-4Jh</a>				
Karunya University, Coimbatore, India	May 25, 2025	May 25, 2025	Karunya University,	General Impressions on Karunya University
The Engaged Scholar E-newsletter, MSU	Sept. 2013	Oct. 2013	Carla Hills	MSU at Forefront of Structural Fire Safety Research and Design
Science News	July 15 2007	August 25 2007	Science Weekly	www.sciencenews.com
Science Daily*	June 08 2007	June 10 2007	Science Daily	www.sciencedaily.com
MSU News*	June 08 2007	June 14 2007	MSU	Fire facility dedication
MSU Website*	June 6 2007	June 6 2007	MSU	NSF workshop
MSU-CoE Website*	May 2 2007	May 3 2007	MSU	Oakland Bridge Collapse
Civil Engineer	Feb 2002	May 1 2002	CSCE	
Construction Canada	May 1 2002	May 1 2002	IRC	
The Link	May 1 2002	May 1 2002	PEO	
Queen's Alumni Review	May 1 2002	May 1 2002	Queen's University	
Building Partnerships	May 1 2002	May 2 2002	Civil Engineering, Queens	
APEGGA Magazine	Nov. 6 2001	Nov 6 2001		
Health and Science news letter		May 14 2002		
Industry Canada NL		October 2002	Industry Canada	