



**Division of Structural Engineering
Department of Civil Engineering**

Anna University

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Dr. K P Jaya

Professor

Research Interests

Structural Dynamics, Earthquake Engineering, Reinforced Concrete Structures, Precast Structures, Vibration Control, Wind Engineering, Soil- Structure-Interaction

Educational Qualifications:

- ◆ Ph.D. (1995-2000), Structural Engineering, Indian Institute of Technology, Madras
- ◆ M.Tech. (1990 -1992), Structural Engineering, Kerala University
- ◆ B Tech (1984 -1988), Civil Engineering, Kerala University

Experience:

- ◆ Professor, College of Engineering Guindy, Anna University, Chennai – 2009 - Present
- ◆ Associate Professor, College of Engineering Guindy, Anna University, Chennai – 2006 - 2009
- ◆ Assistant Professor, College of Engineering Guindy, Anna University, Chennai – 2003 - 2006
- ◆ Assistant Professor, SRM Institute of Science and Technology, Chennai – 2002 -2003
- ◆ Senior Project Officer, Structural Engineering Division, IIT Madras - 2001 - 2002
- ◆ Fellow Scientist, Structural Engineering Research Centre, Madras - 2000 - 2001

Awards:

- ◆ **Outstanding Concrete Technologist**, 2020, Indian Concrete Institute (Received the information letter from Head Quarters, Yet to receive the award in hand)
- ◆ **Best Woman Engineer**, 2019, Institution of Engineers (India)
- ◆ **Active Consultant**, 2014, Anna University, Chennai
- ◆ As the Chairperson of Indian Concrete Institute (ICI) - Chennai Centre, received Special Award for the Best Performance in the year 2016 from ICI Head Quarters.

Additional Responsibilities

- ◆ Director, Centre for Research, Anna University, Chennai (2018 - Till Date)
- ◆ Additional Director, Centre for Research, Anna University, Chennai (2014 - 2018)
- ◆ Associate Editor, "Journal of Applied and Engineering Sciences", Published by Anna University (2014 - Till Date)
- ◆ Executive Director, Building Technology Centre, Anna University (2010 - 2013)

Professional Activities

- ◆ Chairperson - Indian Concrete Institute, Chennai Chapter
- ◆ Panel Member of CED 39 (Earthquake Engineering Codes) of Bureau of Indian Standards (BIS), New Delhi

- ◆ Panel Member of CED 2 (Cement & Concrete Codes - IS456) at Bureau of Indian Standards (BIS), New Delhi
- ◆ Independent Director - Tamil Nadu Police Housing Corporation (2017 – Present).
- ◆ Panel Member for the preparation of Precast Handbook - an Indian Concrete Institute Initiative
- ◆ Technical Committee member for the preparation of Tamilnadu Government Document “Guidelines for Reconstruction of Houses Affected by Tsunami in Tamilnadu” (2005)
- ◆ Technical Reviewer for the International Journals
 1. Journal of Engineering Materials, ASCE
 2. Journal of Natural Hazards, ASCE
 3. Journal of Structural Engineering (JoSE)
 4. Journal of Structural Engineering and Mechanics
 5. Journal of Soil Dynamics and Earthquake Engineering, Elsevier Science Publications
 6. International Journal Civil Engineering, Iran University of Science and Technology
 7. Journal of Solids and Structures, Elsevier Science Publications

Membership of Scientific and Professional Societies

- ◆ Indian Concrete Institute
- ◆ Indian Society of Earthquake Technology
- ◆ Indian Society of Wind Engineering
- ◆ Institution of Engineers, India
- ◆ Indian Society for Technical Education
- ◆ Association of Consulting Engineers

Fellowships and Grants

- ◆ International Travel Grant to attend the 16th World Conference on Earthquake Engineering at Chile, 2017 (Sponsored by Anna University)
- ◆ International Travel Grant to attend the 15th World Conference on Earthquake Engineering at Lisbon, Portugal, 2012(Sponsored by Anna University)
- ◆ International Travel Grant to attend the 13th World Conference on Earthquake Engineering at Vancouver, Canada, 2004 (Sponsored by NPEEE and AICTE)
- ◆ Ministry of HRD Fellowship for Research Studies at IIT, Madras (1995-2000)
- ◆ Ministry of HRD Fellowship for PG Studies (GATE, 1990-1992)

Academic Responsibilities at University:

1. Member of Board of Studies - Department of Civil Engineering, CIT, Coimbatore (2013 onwards)
2. Member of Board of Studies - Department of Civil Engineering, Bennari Amman Institute of Technology, Coimbatore (2018 onwards)
3. Member of Board of Studies - Department of Civil Engineering, B S Abdul Rahman University, Chennai (2016 - Till Date)
4. Member of Board of Studies - Department of Civil Engineering, Hindustan University, Chennai (2016 - Till Date)

5. Member of Board of Studies - Department of Mechanical Engineering, Anna University (2013 - 2014, 2014 - 2015)
6. Member of Scrutiny Committee for M.S and Ph.D Thesis – Centre for Academic Research, Anna University (2008 – 2012)

PhD Research Projects (Completed)

1. **Dr.S.Selvi Rajan** (2009), “Aerodynamic Analysis of Bridges using Wind Tunnel Experiments”
2. **Dr.G.Hemalatha** (2009), “Vibration Control using Tuned Mass Dampers”
3. **Dr.K.R.Bindhu**, (2009)“RC Beam – Column Joint with Special Reinforcement Detailing under Seismic Loading”
4. **Dr.Greeshma.S** (2010), “Behaviour of Shear wall – Diaphragm Connections and Investigations on Various Detailing Feasibilities”
5. **Dr.Jessy Rooby** (2011), “Performance of Retrofitted Reinforced Concrete Columns Subjected to Cyclic Loading”
6. **Dr.R.Vidjeapriya**,(2012) “Connection Detailing of RC Pre-cast Elements subjected to Earthquake Loading”
7. **Dr.T.Palani**, (2015) “Seismic Behaviour of Rigid Frame with Copper Slag Concrete”
8. **Dr.K.Sivasubramaniam**, (2015)“Forensic Investigations on High Performance Concrete”
9. **Dr.Venkata Rama Rao**, (2015) “Performance of Shear-wall subjected to cyclic loading” (2015).
10. **Dr.R.S.Surumi**, (2016) “Behaviour of Reinforced Concrete Structural Wall-Flat Slab Joint Region under Lateral Loading”
11. **Mr.A.Vanuvamalai**, (2020) “Seismic Performance of Tunnel Structures”
12. **Ms. Arthi.S**, (2020) "Study on Performance of Structural Wall – Slab Connection under Reverse Cyclic Loading”

PhD Research Projects (Ongoing)

1. **Mrs.L.Hemamathi**, “Seismic Performance of Precast Foundation - Column Connections”
2. **Mr.Saravana Kumar**, "Assessment of Bridges".
3. **Mr. Joyson**, "Performance of Precast Wall Panel Horizontal Connections"
4. **Mr.Balasubramanian**, “Behaviour of Deep Beam Shear wall – Slab Connection under Cyclic Loading”
5. **Ms.Rajeswari**, “Precast Beam Column Emulative Connections”
6. **Balkis Banu**, “Performance of Monolithic Beam Column Connections”
7. **Bhoopathi Raja**, “Study Wind Load Effects on Cooling Tower”

Completed ME Projects

Number of ME Projects Completed	: 50
Number of BE Project Completed	: 20

Sponsored Research Activities:

- ◆ Performance of Concrete with Rice Husk Ash as Binding Material

Duration: 1 Years
Role: Principal Investigator
Agency : **Building Materials and Technology Promotion Council (BMTPC)**

- ◆ Seismic Qualification Studies of DSR and DSRDM for Reactor Vault for PFBR
Duration: 1 Years
Role: Principal Investigator
Agency : **IGCAR, Kalpakkam**
- ◆ Remote Sensing and GIS Applications for Chennai City E-Governance Aspects (2009)
Duration: 3 Years
Role: Co- Investigator
Agency : **Department of Information Technology , Government of India**
- ◆ Behaviour of Precast Beam – Column Connection under Cyclic Loading (2009)
Duration: 3 Years
Role: Principal Investigator
Agency : **AICTE**
- ◆ Experimental Investigations on Shear wall – Diaphragm Connections (2009)
Duration: 3 Years
Role: Principal Investigator
Agency : **UGC**

Consultancy Projects Handled:

- Proof Checking of Structural Design of Various Multistoried Buildings at Chennai for Tamilnadu Housing Board and Tamilnadu Slum Clearance Board
Role: Project Coordinator
Agency : **Tamil Nadu Housing Board**
Amount: **110Lakhs**
- Proof Checking of Construction of Precast viewing gallery for ISRO at Sriharikota (2019)
Role: Project Coordinator
Agency : **ISRO**
Amount: 10Lakhs
- Proof Checking of Construction of Precast Structures in and around Chennai region (2016-20)
Role: Project Coordinator
Agency : **TEEMAGE Group (Tamilnadu), BG Shirkey (Pune)**
Amount: 50Lakhs
- Proof Checking of the Structural Design of the Multistoried Building for M/s Puravankara Groups at Pudur Chennai
Role: Co Coordinator
Agency : **Puravankara Groups**
Amount: 20 Lakhs
- Studies on the properties of Light weight aerated cement concrete (2007)
Role: Coordinator
Agency: **CPWD**
Amount: 2 Lakhs
- Earthquake Resistant Analysis and Design of Multistoried Building, Chennai (2005- 2006)
Role: Co - Coordinator
Agency: **Private Software Firm**

Amount: 1 Lakh

- Analysis and Design of 150 m TV Tower at Dibrugarh, Assam (2004 – 2005)
Role: Co - Coordinator
Agency: **All India Radio**
Amount: 1.5 Lakh

List of Seminar / Short Term Course / Workshop Conducted

1. Training Programmes on “Construction Materials” for Engineers of Tamil Nadu Slum Clearance Board, Government of TamilNadu at Anna University Chennai – during 21st to 23rd November 2012 conducted by Building Technology Centre in association with Division of Structural Engineering.
Role: Coordinator
2. Faculty Development Programme on “Basics of Dynamics and Earthquake Engineering”, for Teachers of Engineering Colleges of Tamilnadu, Sponsored by Centre for Faculty Development, Anna University, Chennai during 30th May to 6th June 2012 conducted by Division of Structural Engineering.
Role: Coordinator
3. Training Programmes on “Construction Materials” for Engineers of Tamil Nadu Slum Clearance Board, Government of TamilNadu at Anna University Chennai – during 21st to 23rd November 2012 conducted by Building Technology Centre in association with Division of Structural Engineering.
Role: Coordinator
4. Two Days workshop on “Construction of Bamboo Houses”, for Practicing Engineers during 30th May to 6th June 2012 , conducted by Building Technology Centre, Anna University, Chennai
Role: Coordinator
5. Series of **Five** Training Programmes on various topics for Engineers of Tamil Nadu Housing Board, Government of TamilNadu at Anna University Chennai by Building Technology Centre in association with Division of Structural Engineering.
Role: Coordinator
6. Series of **Thirteen** Training Programme on “**Analysis, Design and Construction of Bridges**” for Engineers of Rural Development, Government of TamilNadu at Anna University Chennai conducted by Building Technology Centre in association with Division of Structural Engineering.
Role: Coordinator
7. National Seminar on “**Performance of Disaster Resistant Structures**”, during 7th and 8th May 2009 organised by Structural Engineering Division, College of Engineering, Guindy Anna University.
Role: Coordinator
8. National Workshop on “**Vibration Measurements in Civil Engineering Structures**”, during 26th and 27th September 2008 organised by Structural Engineering Division, College of Engineering, Guindy Anna University.
Role: Coordinator
9. National Seminar on “**Modern Trends in Structural Design and Construction Practices**”, during 23rd and 24th March 2007 organised by Structural Engineering Division, College of Engineering, Guindy Anna University.
Role: Coordinator
10. Workshop on “**Earthquake Awareness**”, on 22nd January 2007, conducted by Department of Civil Engineering, College of Engineering, Guindy, Anna University, Sponsored by TEQIP.
Role: Co-coordinator

11. Training Programme on “**Earthquake Risk Management**”, for Engineers from Government Departments of TamilNadu under the Scheme of National Programme for Capacity Building of Engineers in Earthquake Risk Management, sponsored by MHRD, India, during 12th to 23rd June 2006 at Anna University, Chennai.

Role: Co - Coordinator

12. Training Programme on “**Earthquake Risk Management**”, for Engineers from Government Departments of TamilNadu under the Scheme of National Programme for Capacity Building of Engineers in Earthquake Risk Management, sponsored by MHRD, India, during 28th November to 10th December 2005 at Anna University, Chennai.

Role: Coordinator

International Conferences Participated

- ◆ **16th World Conference on Earthquake Engineering**, Chile, 2017
- ◆ 5th International Congress on Computational Mechanics and Simulation", held at SERC, Chennai during 10th to 13th December 2014 (Local Organising Committee Member and Presented an invited Lecture)
- ◆ 8th Asia Pacific Conference on Wind Engineering, SERC, Chennai during 10th to 14th December 2013 (Local Organising Committee Member)
- ◆ **15th World Conference on Earthquake Engineering**, Lisbon, Portugal, September 2012
- ◆ International Conference on Modeling and Simulation in Civil Engineering (ICMSC-2011), Kollam, India, December 2011.
- ◆ International Conference on “Earthquake Analysis and Design of Structures”, held at PSG College of Technology, Coimbatore during 1st to 3rd December 2011
- ◆ 5th Asian Symposium on “Polymers in Concrete” at Structural Engineering Research Centre, Chennai during 11th and 12th September 2006.
- ◆ **13th World Conference on Earthquake Engineering**, Vancouver, Canada, August 2004

Publications

Books

1. A.R.Santhakumar, **K.P.Jaya** et.al (2005), “Guidelines for Reconstruction of Houses Affected by Tsunami – General and Public Buildings (Masonry)”, Published by Govt. of Tamil Nadu and UNDP, India
2. A.R.Santhakumar, **K.P.Jaya** et.al (2005), “Guidelines for Reconstruction of Houses Affected by Tsunami – General and Public Buildings (RCC)”, Published by Govt. of Tamil Nadu and UNDP, India

Chapters

1. Two Chapters in the "Handbook on Precast Concrete Buildings" (2016), Published by Indian Concrete Institute

International Journals:

1. Arthi S and **Jaya K P** (2020), “Seismic Performance of Precast Shear Wall–Diaphragm Connection: A Comparative Study with Monolithic Connection”, International Journal of Civil Engineering, Volume No 18(4), PP. No. 9-17.

2. Arthi S and **Jaya K.P** (2020), "Experimental Study on Shear Behaviour of Precast Shear Wall–Slab Dowel Connection", Asian Journal of Civil Engineering, (Published Online) <https://doi.org/10.1007/s42107-020-00229-z>.
3. Arthi S and **Jaya K.P** (2019), "Seismic Performance of Precast Shear Wall- Slab connection under Cyclic loading: Experimental test vs Numerical analysis", Earthquake Engineering and Engineering Vibration (Accepted for Publication on 18-Dec-2019).
4. Surumi R. S., **Jaya K.P.** (2019) "Effectiveness of a novel ductile detailing of reinforced concrete wall–flat slab joint", Australian Journal of Structural Engineering, Taylor & Francis, <https://doi.org/10.1080/13287982.2019.1631564>.
5. Surumi R. S. and **Jaya K.P.** (2019) Lateral Load Resistance of a Novel Connection Detailing for Structural Wall-Floor Slab Joint Region, Structures Congress 2019, ASCE, <https://doi.org/10.1061/9780784482247.026>, July 2019
6. **Vanuvamalai, A**, Jaya, KP & Balachandran, V (2018), 'Seismic performance of tunnel structures: a case study', **Natural Hazards**, Journal of the International Society for the Prevention and Mitigation of Natural Hazards, vol.93, no.1, pp.453-468, ISSN : 0921-030X (Annexure I). (Impact Factor: 1.833).
7. **Vanuvamalai, A** & Jaya, KP, (2018), 'Design analysis of an underground tunnel in tamilnadu', Journal Archives of Civil Engineering, vol. 64, issue 1 (Available on-line from 17.05.2018) DOI: 10.2478 /ace-2018-0002. ISSN : 1230-2945 (Annexure I). (Impact Factor: 0.521).
8. Rama Rao G.V., Gopalakrishnan.N, **Jaya K.P.**, Muthumani K, Reddy G.R., Parulekar Y.M (2016) "Studies on Non-Linear Behaviour of Shear Walls of Medium Aspect Ratio under Monotonic and Cyclic Loading", Ms. No. CFENG-913R1, ASCE Journal of Performance of Constructed Facilities, DOI No. [https://doi.org/10.1061/\(ASCE\)CF.1943-5509.0000724](https://doi.org/10.1061/(ASCE)CF.1943-5509.0000724) (IF - 0.59).
9. Surumi R. S., **Jaya K.P.** and Greeshma S. (2015), 'Modeling and Assessment of Shear Wall – Flat Slab Joint Region in Tall Structures', The Arabian Journal for Science and Engineering Vol. 80, No. 4, pp 2201-2217 (IF 0.367)
10. Surumi R. S., **Jaya K.P.** and Greeshma S. (2015), 'Numerical evaluation of structural wall – flat slab connection', Journal Gradevinar, Croatian Association of Civil Engineers, GRAĐEVINAR 67 (2015) 7, pp. 663-672, doi: 10.14256/JCE.1164.2014 (IF 0.216)
11. Sivasubramanian, K, **Jaya, KP** and Ramanjaneyulu, K (2015), 'Improved thermography technique for identifying structural elements under ambient conditions', Current Science, Vol. 108, No. 10, pp - 1882 - 1889.
12. Vidjeapriya, R., Vasanthalakshmi, V. and **Jaya, K.P.** (2014) "Performance of Precast Concrete Beam Column Dowel Connections under Cyclic Loading", (2014), International Journal of Civil Engineering, Vol.12,No.1, Transaction A:Civil Engineering, pp.82-94.
13. Sivasubramaniam K, **Jaya KP**, Neelamegam M (2014), "Virtual Edge Extension Technique to reduce the Edge Effect in Impact-Echo Method", Ms. No. CFENG-997R1, ASCE Journal of Performance of Constructed Facilities. (Available online from 17th Dec 2014) IF - 0.59.
14. Jessy Mathai and **K P Jaya** (2013), "Retrofitting of RC Column Subjected to Lateral Cyclic Loading Using Glass Fibre Reinforced Polymer (GFRP) And Carbon Fibre Reinforced Polymer (CFRP)", International Journal of Civil and Structural Engineering.
15. K. Sivasubramanian, K. P. Jaya, M. Neelemegam, K. Ramanjaneyulu (2013), "Impact-Echo Scanning for Identification of Defects in High Strength Concrete Slab", International Journal of 3R' s (Repair, Restoration & Renewal of Built Environment), Vol.4, No.3, pp - 589–594.

16. Sivasubramanian.K, **Jaya.K.P** and Neelamegam.M, (2013), "Covermeter for Identifying Cover Depth and Rebar Diameter in High Strength Concrete", International Journal of Civil and Structural Engineering, Volume.3, No.3, pp 557 - 563.
17. Greeshma S, **Jaya K.P** and Vinoth Rajkumar. (2013), 'Parameteric Study on Exterior Shear Wall-Floor Slab Connection', ASCE Journal of Performance of Constructed Facilities. 10.1061/(ASCE)CF.1943-5509.0000498.
18. Greeshma S, Annilet Sheeja and **Jaya K.P** (2013), 'Effect of Confinement of Flanged Wall-Slab Joint under Lateral Cyclic Load", Asian Journal of Civil Engineering (Building and Housing) Vol.14, No.4, pp 617 – 630, IF : 0.339
19. Greeshma S and **Jaya K.P.** (2012), 'Effect of slab shear reinforcement on the performance of Shear wall - Floor slab connection', ASCE Journal of Performance of Constructed Facilities. Vol.27, pp 391 - 401 (IF - 0.45).
20. Vidjeapriya.R, and **Jaya K.P.** (2012), 'Experimental Study on Two Simple Mechanical Precast Beam – Column Connections under Reverse Cyclic Loading", ASCE Journal of Performance of Constructed Facilities Vol. 27, No.4, pp.402-414. IF - 0.45..
21. Greeshma S., Rajesh C. and Jaya K.P. (2012), 'Seismic behaviour of Shear Wall - slab joint under lateral cyclic loading' Asian Journal of Civil Engineering (Building and Housing) Vol.13, No.4, pp 455 – 464, IF : 0.339.
22. Vidjeapriya.R, and **Jaya K.P.** (2012), 'Behaviour of Precast Beam – Column Mechanical Connections under Cyclic Loading' Asian Journal of Civil Engineering (Building and Housing), Vol.13, No.2, pp 233- 245, IF : 0.339.
23. Greeshma S., Rajesh C. and **Jaya K.P.** (2011), 'Special detailing of shear wall – diaphragm connection to resist seismic loading', International Journal of Earth Sciences and Engineering, Vol.4, No.3, pp.454-461.
24. Greeshma S, **Jaya K.P.** and Annilet Sheeja (2011), 'Analysis of Flanged Shear-wall using ANSYS Concrete Model', International Journal of Civil and Structural Engineering, Vol.2, No.2, pp.454 - 465.
25. Greeshma S. and **Jaya K.P.** (2010), 'Detailing of Shear Wall – Diaphragm Junction to resist Seismic Loading', The Technology World, International Journal, Vol.5, No.1, pp.209-218.
26. Bindhu.K.R, and **Jaya.K.P.**, "Strength and Behaviour of Exterior Beam Column Joints with diagonal cross bracing bars" Asian Journal of Civil Engineering (Building and Housing) Vol.11, No.3, pp. 397-410, June 2010, IF : 0.339.
27. Selvi Rajan.S, and Lakshmanan. N, **Jaya.K.P.**, S.Arunachalam and G.Ramesh Babu (2010) "Evaluation of strouhal Number for a Bridge Deck Model using Pressure Measurement", International Quarterly Journal, Advances in Vibration Engineering, Vol.9, No.2, pp 32 – 40, IF-0.328.
28. Bindhu.K.R, Sukumar.P.M and **Jaya.K.P.**, "Performance of Exterior Beam Column Joints Under Seismic Type Loading" Journal of Indian Society for Earthquake Technology, Vol.46, No.2, pp. 47-64, June 2009.
29. Selvi Rajan.S, **Jaya.K.P.**, and Lakshmanan. N (2009), "Development of Load Cells for Simultaneous Measurement of Drag, Lift and Moment for Section Model of Bridge Decks under Wind Loading", Jl. of Experimental Techniques, SEM, Volume.33, No.4, IF- 0.257.
30. Bindhu.K.R, **Jaya.K.P** and Manicka Selvam.V (2008), "Behaviour of Exterior Beam-Column Joint with Non-conventional Reinforcement Detailing", Journal of Structural Engineering and Mechanics, Volume. 30, No.6, 2008, pp 733 - 761.

31. Bindhu.K.R, and **Jaya.K.P** (2008), “Performance of Exterior Beam-Column Joint with Cross Inclined Bars under Seismic Type Loading”, Journal of Engineering and Applied Sciences, 3 (7), pp – 591- 597.
32. Hemalatha G and **Jaya K P** (2008), “Water Tank as Passive TMD for Seismically Excited Structures”, Asian Journal of Civil Engineering (Building and Housing), Vol. 9, No.4, pp.349 – 366, IF : 0.339.
33. **Jaya K P** and Meher Prasad A (2006), “Dynamic Behaviour of Pile Foundations in Layered Soil Medium using Cone Frustums - Discussion”, Geotechnique, Institution of Civil Engineers, UK, Volume 56, Issue 2, pp. 147.
34. **Jaya K P** and Meher Prasad A (2004), “Dynamic Behaviour of Pile Foundations in Layered Soil Medium using Cone Frustums”, Geotechnique, Institution of Civil Engineers, UK, Volume 54, Issue 6, pp. 399 - 414.
35. **Jaya K P** and Meher Prasad A (2002), “Embedded Foundation In Layered Soil Under Dynamic Excitations”, Soil Dynamics and Earthquake Engineering, Elsevier Science, Volume 22, Issue 6, pp. 485 – 498, IF:1.010.

National Journals

36. Rama Rao G.V., Gopalakrishnan.N, **Jaya K.P.**, Renish J Dhaduk, (2016), "Studies on Ductility of Shear Walls", Journal of Structural Engineering, Vol. 42, No. 6, February - March 2016 pp. 540 - 549.
37. Athiban P, Dickson J, **K.P.Jaya** and S.Selvi Rajan (2015), "POD Analysis on a Gabled Roof Low Rise Building Subjected to Wind Loading", Journal of Energy Power Sources, Vol. 2, No. 1, 2015, pp. 32-39.
38. K. Sivasubramanian, K.Ramanjaneyulu, **K.P. Jaya**, M. Neelemegam, Non-destructive evaluation in high strength concrete using ultrasonic pulse echo, Journal of Structural Engineering, Vol. 41, No. 4, October - November 2014 pp. 341-348
39. Palani.T, **Jaya.K.P**, Muthumani.K (2014), "Copper Slag - Substitution for sand in High Strength Concrete", Journal of Structural Engineering, Madras, Vol. 41, No. 4, October - November-4, 2014 pp. 293 - 306.
40. Vidjeapriya, R. and **Jaya, K.P.** (2012) “Behaviour of Precast concrete Beam Column Hybrid Connections under Seismic Type Loading”, Journal of Structural Engineering, Madras, Vol.39, No.2, pp.181-192, IF : 0.8902.
41. S.Greeshma and **K.P.Jaya.** (2012), ‘ Effect of Cross inclined Bars on the Behaviour of Shear – wall Floor Slab Joint under Lateral Cyclic Loading’, Journal of Structural Engineering (SERC – India), Special Issue, Vol.39, No.1, pp 9-14, IF: 0.8902
42. Jessy Rooby, Joanna.P.S and **Jaya.K.P**, (2011), “Strengthening of RC Column using Glass Fibre Reinforced Polymer”, Journal of Institution of Engineers, (India), Vol.92.
43. Bindhu.K.R, **Jaya.K.P** and Manicka Selvam.V (2009), “Behaviour and strength of exterior joint sub assemblage subjected to reversal loadings”, Indian Concrete Journal, Vol.83, No.11, pp. 9 – 20.
44. Bidhu.K.R, Srinivasan.M and **Jaya.K.P** (2008) “Effect of Reinforcement Percentage on the Cyclic Behaviour of Columns”, Journal of Institution of Engineers (India), Volume.89, No.17, 2008, pp – 39 - 48.
45. Greeshma.S and **Jaya K P** (2007), “Finite Element analysis of shear wall under seismic loading”, Journal of Structural Engineering, SERC (India), Volume 34, No.2, pp 152 – 161, IF: 0.8902.

46. Narayanan S, Unni Bhaskar and **Jaya K P** (2005), "Strength and Durability of Treated Rubber wood", Journal of Institution of Engineers (India), Volume 86, pp 1-7.
47. **Jaya K P** and Narayanan S (2003), "Use of Rubber wood as Structural Members", Journal of New Building Materials and Construction World, pp 48 – 55.
48. Thandavamoorthy T S, **Jaya K P**, and N Anandavalli, (2002) "Behaviour of Buried Pipeline due to Ground motion Generated by Pile Driving", e – journal - buildbazaar.com.

International Conferences

49. Vidjeapriya, R. and **Jaya K.P.**(2017) "Cyclic Behaviour of Exterior Precast Beam to Beam Connections", World Conference on Earthquake Engineering, Santiago, Chile during 9th to 13th January 2017 (Paper ID:3279- Oral Presentation.
50. Surumi.R.S. and **Jaya K.P.**(2017) "Evaluation of Reinforced Concrete Wall–Flat Slab Connection with a Noval Ductile Detailing", World Conference on Earthquake Engineering, Santiago, Chile during 9th to 13th January 2017 (Paper ID:3236) - Oral Presentation.
51. Vanuvamalai.A, Jaya K.P and Balachandran.V.(2017) "Seismic Hazard Analysis of Tunnel Structures - A Case Study", World Conference on Earthquake Engineering, Santiago, Chile during 9th to 13th January 2017 (Paper ID:3236) - Poster Presentation
52. **Vidjeapriya. R** and Jaya K.P. (2014), "Nonlinear Analysis of Precast Beam Column Dowel Connections", Fifth International Congress on Computational Mechanics and Simulation (ICCMS-2014), SERC, Madras, 10th to 12th December 2014, pp.501-510.
53. Vanuvamalai.A and **Jaya.K.P** (2013), "Finite Element Analysis of Road Tunnel", International Conference on Structural Engineering and Mechanics, organised by National Institute of Technology Rourkela during 20th to 22nd December 2013.
54. Surumi, RS & Jaya, KP 2014, 'Numerical evaluation of shear wall - diaphragm joint region subjected to seismic type loading', 5th International Congress on Computational Mechanics and Simulation, Structural Engineering Research Centre, Chennai, December 2014, pp. 112-130.
55. Surumi.R.S, Greeshma.S and **Jaya.K.P** (2013), "Detailing of Shear Wall – Diaphragm Joint Region Under Lateral Cyclic Loading", International Conference on Modeling and Simulation in Civil Engineering (ICMSC-2013),, organised by TKM College of Engineering, Kollam, Kerala during 12th to 14th December 2013.
56. Greeshma.S, **Jaya.K.P** and Rajesh.C (2013) "Cyclic Testing Of Shear Wall – Floor Slab Joint With Diagonal Cross Vertical Bars", PROET 2013, organised by Building Fire Research Centre, Karnataka and University of British Columbia, Canada during 24th to 27th August 2013.
57. Vidjeapriya.R and **Jaya.K.P** (2013) " Nonlinear Finite Element Analysis of Two Dry Exterior Precast Beam-Column Connections", PROET 2013, organised by Building Fire Research Centre, Karnataka and University of British Columbia, Canada during 24th to 27th August 2013.
58. Sivasubramanian.K, **Jaya.K.P**, Ramanjaneyulu.K and Neelemegam.M (2013), "Impact-Echo method: The Technological Growth in two Decades", PROET 2013, organised by Building Fire Research Centre, Karnataka and University of British Columbia, Canada during 24th to 27th August 2013.
59. Rama Rao.G.V, Gopalakrishnan.N, Muthumani.K, Sathish Kumar.K, **Jaya.K.P**, Parulekar.Y and Reddy.G.R (2013), "Experimental Investigation on Lateral Load Behaviour of an RC Shear Wall", PROET 2013, organised by Building Fire Research Centre, Karnataka and University of British Columbia, Canada during 24th to 27th August 2013.

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61. Thilakavathy.C.A and **Jaya.K.P** (2013), "Analysis, Design and Performance of Integral Bridges under Seismic Loads", PROET 2013, organised by Building Fire Research Centre, Karnataka and University of British Columbia, Canada during 24th to 27th August 2013.
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