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### **Education:**

**B.E. (Civil Engg.) in 2000 from ACCET Karaikudi, Tamil Nadu, India**

**M.E. (Structural Engg.) in 2004 from Annamalai University, Tamil Nadu, India**

**Ph.D. (Civil Engineering Materials) in 2011 from IIT Delhi, New Delhi, India**

**P.D.F. (Civil Engineering Materials) in 2012 from NTU Singapore, Singapore**

## **Research Interest:**

**Pore structure characterization and modeling of pore size distribution of cement based materials.**

**Effect of pozzolanic materials addition/replacement in cement based system.**

**Strength and durability studies on cement based materials.**

**Studies on reinforced concrete corrosion**

**Repair and rehabilitation of concrete structures**

## **Publications**

### **Journals**

1. **Kondraivendhan, B.**, and Bulu Pradhan. “Effect of Ferrocement confinement on behavior of concrete”, *Construction and Building Materials*, V. 23, 2009, pp. 1218-1222.
2. **Kondraivendhan, B.**, and Bhattacharjee, B. “Effect of age, w/c ratio on size and dispersion of pores in OPC paste”, *ACI materials Journal*, V. 107, No. 2, 2010, pp. 147-154.
3. **Kondraivendhan, B.**; Velchuri Sairam.; and Nandagopal, K. “Influence of pond ash as fine aggregate on strength and durability of concrete”, *Indian Concrete journal*, V. 85, No. 10, 2011, pp. 27-36.
4. Das, B.B., and **Kondraivendhan, B.** “Implication of Pore size distribution parameters on compressive strength and permeability and hydraulic diffusivity of concrete”, *Construction and Building Materials*, V. 28, No.1, 2012, pp. 382-386.
5. **Kondraivendhan, B.** “Strength and Flow behavior of rice husk ash blended cement paste and mortar”, *Asian Journal of Civil Engineering (BHRC)*, V.14, No.3, 2013, pp. 405-416.
6. **Kondraivendhan, B.**, and Bhattacharjee, B. “Pore Size Distribution Modification of OPC Paste through Inclusion of Fly Ash and Sand”, *Magazine of concrete research*, V. 65, No. 1, 2013, pp. 1-12.

7. **Kondraivendhan, B.**; Sabet Divsholi, B.; and Susanto Teng. “Estimation of strength, permeability and hydraulic diffusivity of pozzolana blended concrete through pore size distribution”, *Journal of Advanced Concrete Technology*, V.11, 2013, pp. 230-237.
8. **Kondraivendhan, B.**, and Bhattacharjee, B., “Prediction of strength, permeability and hydraulic diffusivity of OPC paste”, *ACI Materials Journal* (Accepted for publication.)
9. **Kondraivendhan, B.**, and Bhattacharjee, B., “Strength and W/C Ratio Relationship of CBM revisited through pore features” (To be communicated).
10. **Kondraivendhan, B.**, and Bhattacharjee, B., “Estimation of Strength, Permeability and Hydraulic Diffusivity of Cement Paste and Mortar blended with fly ash through PSD” (To be communicated).

### **Conferences**

1. **Kondraivendhan, B.**, and Bhattacharjee, B. “Determination of OPC paste porosity through MIP”, International Conference on Advances in Concrete, Structural and Geotechnical Engineering, BITS Pilani, 2009, pp.1-6.
2. **Kondraivendhan, B.**, and Bhattacharjee, B. “Assessment of cement sand mortar porosity through MIP”, International Conference on Advances in Mechanical and Building sciences in the 3<sup>rd</sup> millennium, VIT Vellore, 2009, pp.1634-1637.
3. **Kondraivendhan, B.**, and Bhattacharjee, B. “PSD modification of PC paste and mortar due to fly ash addition”, Proceedings of UKIERI congress: Concrete for 21<sup>st</sup> century construction, IIT Delhi, New Delhi, 2011.
4. **Kondraivendhan, B.**; Sabet Divsholi, B.; and Susanto Teng. “Assessment of strength, permeability and hydraulic diffusivity of concrete through Mercury Intrusion Porosimetry” 36<sup>th</sup> conference on our world in concrete and structures, Singapore 2011.
5. Darren, T.Y.L.; Xu Da.; Sabet Divsholi, B.; **Kondraivendhan, B.**; and Susanto Teng.”Effect of ultra fine slag replacement on durability and mechanical properties of high strength concrete” 36<sup>th</sup> conference on our world in concrete and structures, Singapore 2011.