CURRICULAM VITAE

Dr. Rafat Siddique
Dean of Faculty Affairs &
Senior Professor of Civil Engineering
Thapar University
Patiala (Punjab) – 147 004 INDIA

Email: siddique_66@yahoo.com , rsiddique@thapar.edu
Fax: (91)-175- 2393207, 2393005
Tel: (91)-175-2393027 (work), 2393207 (Home)
Mobile: (91) 98760 - 78644

EDUCATION

Post-doc	University of Wisconsin-Milwaukee, Milwaukee, U.S.A.
Ph.D.	Birla Institute of Technology & Science, Pilani, India, 1993
M. E.	Birla Institute of Technology & Science, Pilani, India, 1988
B.Sc. Engg.	Regional Engineering College, Rourkela, India, 1986

ACADEMIC EXPERIENCE: 25 years

Aug 2010 – Present	Senior Professor	Thapar University, Patiala, **India**
Nov 2003 – Aug 2010	Professor	Thapar University, Patiala, **India**
Aug. 1994 – Nov 2003	Assistant Professor	Thapar University, Patiala, **India**
Aug. 1990 – July 1994	Lecturer	Birla Institute of Technology & Science, Pilani, **India**
Jan 1989 – Aug. 1990	Assistant Lecturer	Birla Institute of Technology & Science, Pilani, **India**

VISITING APPOINTMENTS:

June 5-30, 2012	Invited Professor	ENS, Cachan, France
September 5-20, 2011	Invited Researcher	University of Wisconsin, Madison, **USA**
Dec 1-20, 2010	Visiting Professor	University of Cergy Pontoise, **France**
June 24-July 14, 2009	Invited Researcher	BAM, Berlin, **Germany**
June 1-23, 2009	Visiting Professor	University of Cergy Pontoise, **France**
July 2-13, 2008	Invited Researcher	Consolis Technology, Rusko, **Finland**
June 2 -July 1, 2008	Visiting Professor	University of Cergy Pontoise, **France**
June 4-July 13, 2007	Visiting Professor	University of Wolverhampton, **UK**
June 5 -July 4, 2006	Visiting Professor	INSA Rennes, **France**
June 13 -July 13, 2005	Visiting Professor	University of Cergy Pontoise, **France**

ADMINISTRATIVE EXPERIENCE (Simultaneous with academic experience):

September 2010-Present	Dean of Faculty Affairs	Thapar University, Patiala, Punjab, India
September 2006-Present	Professor Incharge, International Collaborations	Thapar University, Patiala, Punjab, India
Nov. 2003 – Nov 2006	Head, Civil Engineering Department	Thapar University, Patiala, Punjab, India
May 2004	Chairman & Superintendent, End Semester Examinations	Thapar University, Patiala, Punjab, India
May 1995 – April 1999	Hostel Warden	Thapar University, Patiala, Punjab, India
May 1995 – Sept. 1999	N.S.S. Program Coordinator	Thapar University, Patiala, Punjab, India
Sep 1996 – March 2000	Incharge, Undergraduate Courses (Civil Engg.)	Thapar University, Patiala, Punjab, India
July 1995 – Aug. 2001	Incharge, Concrete Structure Lab	Thapar University, Patiala, Punjab, India
Aug. 2000 – Aug. 2001	Coordinator, Project Semester (Practical Training)	Thapar University, Patiala, Punjab, India
Jan. 1989 – July 1994	Incharge Instruction, Distance Learning Programs Division	Birla Institute of Technology & Science, Pilani, India

COURSES TAUGHT

Have taught following courses at Under-graduate (U.G.) and Post-graduate (P.G.) level at Birla Institute of Technology & Science, Pilani, India (Jan 1989 – July 1994), and at Thapar University, Patiala, India (August 1994 – Present)

- Strength of Materials (U.G.)
- Design of Concrete Structures (U.G.)
- Design of Steel Structures (U.G.)
- Structural Analysis (U.G.)
- Prestressed Concrete (U.G. & P.G.)
- Structural Materials (P.G.)
- Concrete Technology (U.G. & P.G.)
- Building Materials and Construction (U.G.)
- Fluid Mechanics (U.G.)
- Soil Mechanics (U.G.)

RESEARCH EXPERIENCE: 25 years

- **H-Factor**

  Google H-Factor: 22 (Total Citations: 1970)

  Scopus H-Factor: 16

Area of Specialization: Structures - Materials

Have around 25 years of research experience in the following areas:

- Fiber Reinforced Concrete
- High Volume Fly Ash Concrete
- Use of Industrial By- Products in Cement-Based Materials
- Self-Compacting Concrete
- Properties of Concrete at Elevated Temperatures
- Microbial Concrete
- Characterization of Leachate from Concrete made with Waste Materials

Sponsored Research Projects

- Study of Structural Characteristics of High Fly Ash Fiber Reinforced Concrete, Funded by University Grants Commission, New Delhi (INR 3,50,000/-)(1996-99)

- Modernization of Concrete Structure Lab, Funded by All India Council for Technical Education, New Delhi (INR 10,00,000)(2000-2003)

- Demonstration of Manufacturing Technology for Concrete and CLSM Utilizing Wood Ash from Wisconsin, USA (US $ 245,494) (2001-2003)Co-PI

- Creation of Center for Excellence in Cement Based Materials, Funded by Thapar University, Patiala, (INR 15,00,000) (2005-2007)

- Funds for Improvement of Infrastructure in Concrete Structure Laboratory, Funded by Department of Science and Technology, Government of India, New Delhi (INR 35,00,000) (2005-2010)

- Enhancement of Durability of Concrete Structures Using Microbes, Funded by Atomic Energy Regulatory Board, GOI (INR 24,78,300) (2007-2010)- Co-PI

- Strength and Permeability Studies of Self-Compacting Concrete, Funded by University Grants Commission, New Delhi (INR 832800/-)(2009-2012)

- Strength and Permeability Studies of SCC at Elevated Temperature, Funded by AICTE, New Delhi (INR 700000/-)(2009-2012)

- Utilization of Fungal Treated Waste Foundry Sand in Concrete, CSIR, New Delhi (INR 1350000/-)(2011-2013)

- Utilization of cement kiln dust in concrete after removal of alkalinity and metal toxicity with microbes, DST, New Delhi (INR 2700000) (2011-2014)

- Influence of bacteria on compressive strength and permeability of fly ash concrete, Funded by University Grants Commission, New Delhi (INR 757600/-) (2012-2015) as Co-PI

Ph.D./Masters Theses Supervision

- M.E. (Master of Engineering) theses supervised: 32 (Details in Appendix –A)
- Ph.D. theses supervised : 12 (Details in Appendix – B)

Publications

- Books : 04 (Details in Appendix – C)
- Journal Publications : 102 (Details in Appendix – C)
- Conference Publications : 70 (Details in Appendix – C)

Editor/Editorial Board Member of Journals

Editors

- ***Associate Editor***, **ASCE** Journal of Materials in Civil Engineering,
- ***Associate Editor***, Journal of Sustainable Cement-Based Materials (Taylor & Francis)
- ***Associate Editor,*** Journal of King Saud University (Engineering Sciences), published by Elsevier

Editorial Board

- ***Member, Editorial Board***, Proceedings of Journal of Civil Engineering, Thomas Telford.
- ***Member, Editorial Board,*** Karaelmas Science and Engineering Journal, Zonguldak Karaelmas University, Turkey

Guest Editors

- Special Issue on "Initiation Mechanisms, Propagation and Consequences of Concrete Reinforcement Corrosion" for International Journal of Corrosion, Hindawi Publications

- Guest Editor for Special Issues in Advances in Civil Engineering

Reviewer of Journals

- ACI Materials Journal
- ASTM International
- ASCE Journal of Materials in Civil engineering
- Construction and Building Materials (Elsevier)
- Construction Materials (Thomas Telford)
- Cement and Concrete Research (Elsevier)
- Cement & Concrete Composites (Elsevier)
- International Journal of Environmental Studies (Taylor & Francis)
- Journal of Environmental Management (Elsevier)
- Engineering with Computers (Springer)
- Automation in Construction (Elsevier)
- Waste Management (Elsevier)
- Polish Journal of Environmental Studies
- Resources Conservation and Recycling (Elsevier)
- Arabian Journal of Science & Engineering (Springer)
- Materials & Design (Elsevier)
- Indian Journal of Engineering & Material Science
- Journal of Civil Engineering, Korean Society of Civil Engineers (Springer)
- Journal of Hazardous Materials (Elsevier)
- Computers & Concrete (Techno Press)
- Thermochimica Acta (Elsevier)
- International Journal of Environment and Waste Management (Inderscience)

Chairman of Session/ Key-Note/ Expert Lectures: 53 (Appendix – D)

International/Foreign Visits: 30 (Appendix – E)

Conferences/ Seminars Attended: 20 (Appendix – F)

Conferences/Symposia/Courses Organized: 10 (Appendix – G)

Research Collaborations/Interaction with Foreign Universities

- University of Wisconsin, Madison, *USA*
- BAM, Berlin, *Germany*
- University of Cergy Pontoise, *France*
- INSA Rennes, *France*
- Ghent University, *Belgium*
- University of Wolverhampton, *UK*
- Zonduldak Karaelmas University, *Turkey*
- University of Wisconsin-Milwaukee, *USA*
- Consolis Technology, Rusko, *Finland*
- University of Guanojuato, *Mexico*
- Hunan University, Changsha, *China*
- South China University of Technology, Guangzhou, *China*

Member of Scientific Committee of International Conference

- International Workshop - Cement Based Materials and Civil Infrastructure NED University Of Engineering And Technology, **Karachi, Pakistan**, December, 10 - 11 2007

- International Conference on Recent Developments in Structural Engineering (RDSE 2007), **Manipal, India**, August 30-September 1, 2007.

- International Conference: Excellence In Concrete Construction -Through Innovation, Kingston University, **London**, September 9-10, 2008.

- Scientific and Technical Committee Member of the First International Conference on Sustainable Built Environment Infrastructures in Developing Countries (SBEIDCO), Enset Oran, **Algeria**, 03-05 May 2009.

- Second International Symposium on Design, Performance and Use of Self-Consolidating Concrete (SCC'2009-China) Beijing, **China**, June 5-8, 2009.

- 2nd International Conference on Current Trends in Technology, NIRMA University, Ahmedabad, India, Dec 8-10, 2011.

- Green 6 Conference, Sustainability Issues in the Built Environment and Construction Materials Technology, Angila Ruskin University, **Cambridge, United Kingdom,** July 3 – 6, 2012.

- 7th Asian Symposium on Polymers in Concrete, **Istanbul, Turkey**, October 3-5, 2012

- International Conference on Advances in Cement and Concrete Technology in Africa, **Johannesburg, South Africa**, January 28th – 30th 2013.

- 8th International Symposium on Cement & Concrete (ISCC2013), organized by the Chinese Ceramic Society (CCS) and China Building Materials Academy (CBMA), Nanjing, China during September 20-23, 2013.

- Second International Conference on ADVANCES IN CHEMICALLY-ACTIVATED MATERIALS (CAM'2014-China), Changsha, China, June 1-3, 2014

- 3rd International symposium on SCC (SCC'2014-China), Xiamen, China, June 5-8, 2014

CHAIRMAN/ MEMBER OF UGC/AICTE/UPSC COMMITTEES

- Chairman, UGC Expert Committee visit for confirmation of fresh Autonomous Status to GMR Institute of Technology, Rajam, Andhra Pradesh, January 27-28 ,2012

- Advisor (Member) UPSC Engineering Services Examination 2010 & 2011

- Member, UGC Expert Committee for evaluation of the proposals from the Northern Region for providing financial assistance for *Development of Sports Infrastructure and Equipment in Universities and Colleges,* March 26-28, 2011.

- Expert Member, National Board of Accreditation, AICTE, New Delhi – Have done accreditation for more than 16 Engineering Institutions

- Expert Member, UGC, New Delhi Committee for granting 'Deemed University Status' of Institutions, October 2007

MEMBER OF OTHER ACADEMIC BODIES

- Member, Senate, Thapar University, Patiala

- Member Board of Studies, Department of Civil Engineering, Thapar University, Patiala

- Member Board of Studies, Department of Civil Engineering, Guru Jambheshwar University of Science & Technology, Hisar, Haryana

- Member Board of Studies, Department of Civil Engineering, Deen Bandhu Chhotu Ram University of Science & Technology, Murthal, Sonepat (Haryana)

- Member Board of Studies, Department of Civil Engineering, Lovely Professional University, Jalandhar (Punjab)

- Selection Committee Member of Professor/Assistant Professor of TTTI, Chandigarh

- Reviewer of Research Proposal of Ministry of Water Resources; Department of Science & Technology, Government of India, New Delhi; Science Foundation, Austria

- Ph.D. Thesis Examiner of Pondicheery University; RGTU, Bhopal; ME/Ph.D. thesis Examiner of Sultan Qaboos University, Oman

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

- Member, Institute of Engineers (India)
- Life Member, Indian Society for Technical Education, India
- Chartered Engineer, Institute of Engineers (India)
- Life Member, Indian Concrete Institute

CONTINUING EDUCATION PROGRAMMES CONDUCTED

Developed three course materials under Continuing Education Programme (C.E.P.) of All India Council for Technical Education, New Delhi titled:

(1) Special Concretes; (2) Concrete Admixtures; and (3) Fly Ash Concrete

EXPERIENCE IN DISTANCE EDUCATION

Nucleus Member and Incharge Instructions Cell, Distance Learning Programme Division of Birla Institute of Technology & Science, Pilani, India from Jan 1989 till July 1994. During this period, I was responsible for

- Preparation, monitoring and management of all matters relating to all courses of Distance Learning Division.

- Various aspects of academic administration such as admissions, evaluation, monitoring, course development and correspondence

- Developed two Course materials in the field of Civil Engineering.

APPENDIX – A

Details of Master of Engineering Theses Supervision

1. Effect of Use of Iron Slag in Concrete as Partial Replacement of Sand (2013)
2. Properties of Self-Compacting Concrete Incorporating Waste Foundry Sand (2013)
3. Properties of Mortar Incorporating Iron Slag (2013)
4. Mechanical Properties and Sulfate Resistance of Concrete Incorporating Used Foundry Sand, Silica Fume, and Metakaolin (2012)
5. Strength Properties and Sulfate Resistance of SCC Incorporating Silica Fume and Metakaolin (2012)
6. Properties of Self-Compacting Concrete Containing Fly Ash and Silica Fume (2011)
7. Strength and Permeability Studies of Self-Compacting Concrete Incorporating Fly Ash and Silica Fume (2011)
8. Properties of Cement Mortar Incorporating Waste Foundry Sand (2010)
9. Leachate Analysis of Spent Foundry Sand (2010)
10. Effect of Metakaolin and Foundry Sand on Near Surface Characteristics of Concrete, (2007)
11. Residual Mechanical Properties of Concrete Containing Ground Granulated Blast Furnace Slag (GGBS) Subjected to Elevated Temperatures up to 350ºC (2007)
12. Mechanical Properties Concrete Incorporating Foundry Sand as Fine Aggregate Replacement (2006)
13. Mechanical Properties of HVFA Concrete Subjected to Temperatures up to 120^{o}C (2006)
14. Abrasion Resistance of HVFA Concrete Incorporating Polyester Fibres (2005)
15. Properties of Concrete with Partial Replacement of Fine Aggregates with High Volumes Class F Fly Ash (2001)
16. Abrasion Resistance of High Volume Class F Fly Ash Concrete (2001)
17. Flexural Properties of Fly Ash Fiber Reinforced Concrete (1999)
18. Flexural Characteristics of Fly Ash Fiber Reinforced Concrete Beams (1999)
19. Impact Strength Characteristics of High Fly Ash Fiber Reinforced Concrete (1998)
20. Properties of High Fly Ash Fiber Reinforced Concrete (1997)
21. Properties of Fal-G Cement (1997)

22. Study of Properties of High Strength Concrete (1997)
23. Flexural Behaviour of Fibrous Concrete Beams Reinforced with Jute Twines (1996)
24. Characteristics of Jute Fiber Reinforced Cement Mortar (1995)
25. Properties of Fiber Reinforced Concrete - A State of Art Report (1993)
26. Study of Behaviour of Steel Fiber Reinforced Concrete (1993)
27. Properties of Cement Mortar Reinforced with Natural Fibers (1993)
28. Behaviour of Concrete to Uniaxial and Biaxial Loading (1992)
29. Reinforced Concrete Beams - A Review and Appraisal (1991)
30. Study of Natural Fiber Reinforced Concrete (1991)
31. Behaviour of Concrete under Various Loading Conditions (1990)
32. Detailing and Formwork of Various Concrete Structures (1989)

APPENDIX – B

Details of Ph.D. Theses Supervision

Completed

1. Pratibha Aggarwal, "Study of Mechanical Properties and Durability Aspects of Self-Compacting Concrete "(2008)

2. Yogesh Aggarwal, "Strength and Durability Properties of Concrete Incorporating Industrial By-Products "(2012)

3. Gurpreet Singh, "Strength and Permeability Studies of Concrete Incorporating Waste Foundry Sand" (2013)

4. Navneet Kaur Chahal, "Influence of Bacteria on the Permeation Characteristics of Concrete made with Supplementary Cementing Materials" (2013)

5. Gurdeep Kaur, "Utilization of Fungal Treated Waste Foundry Sand in Concrete" (2013)

6. Neelam Sharma, "Strength and Permeability Studies of Self-Compacting Concrete at Elevated Temperature" (2013)

Ongoing

7. Kunal, "Microbial treatment of Cement Kiln Dust for utilization in concrete"

8. Krishna Murari, "Performance Characteristics of Concrete Incorporating Copper Slag"

9. Malkit Singh, "Utilization of Coal Bottom Ash as Partial Replacement of Fine Aggregate in Concrete"

10. Gurpreet Singh, "Performance Characteristics of Self-Compacting Concrete Containing Iron Slag".

11. Anhad Singh Gill, "Strength and Durability Properties of Self-Compacting Concrete Incorporating Rice Husk Ash and Metakaolin"

12. Ankur Mehta, "Effect of Pozzolonas on Strength and Durability Properties of Low Calcium Fly Ash Base Polymers "

APPENDIX- C

Details of Publications

BOOKS

1. Siddique, R. and Khan, M. I., "Supplementary Cementing Materials", Springer, April 2011, pages 365.

2. Siddique, R., "Waste Materials and By-Products in Concrete", Springer, Germany, Dec 2007, pages 414.

3. Siddique, R., "Special Structural Concretes", Galgotia Publications Pvt. Ltd., New Delhi, India, 2000, pages 340 – Reference Book

4. Siddique, R., "Civil Engineering through Objective Questions", Galgotia Publications Pvt. Ltd., New Delhi, India, 2000, pages 546. ---- For Undergraduate and Postgraduate.

JOURNAL PUBLICATIONS

5. Murari, K., Siddique, R., and Jain, K.K., "Use of waste copper slag, a sustainable material," Journal of Material Recycling and Waste Management (Springer) (In Press)

6. Kunal, Siddique, R., and Rajor, A., "Strength and Microstructure Analysis of Bacterial Treated Cement Kiln Dust Mortar", Construction and Building Materials (Elsevier), Construction and Building Materials, Volume 63, July 2014, Pages 49-55.

7. Siddique,R., "Utilization (Recycling) Of Iron and Steel Industry By-Product (GGBS) In Concrete: Strength and Durability Properties," Journal of Material Recycling and Waste Management (Springer) (In Press)

8. Agarwal, Y., Siddique, R., "Microstructure and properties of concrete using bottom ash and waste foundry sand as partial replacement of fine aggregates", Construction and Building Materials, Volume 54, 15 March 2014, Pages 210-223

9. Kunal, Siddique, R., and Rajor, A., "Influence of Bacterial Treated Cement Kiln Dust on the Properties of Concrete", Construction and Building Materials (Elsevier), Construction and Building Materials, Volume 52, 15 February 2014, Pages 42-51.

10. Singh, M., and Siddique, R. "Strength Properties and Micro-Structural Properties of Concrete Containing Coal Bottom Ash as Partial Replacement of Fine Aggregate," Construction and Building Materials (Elsevier), Vol. 50, Jan 2014, pp. 246-256.

11. Siddique, R., and Mehta, A., "Effect of Carbon Nano Tubes on Properties of Mortar," Construction and Building Materials (Elsevier), Vol. 50, Jan 2014, pp. 116-129.

12. Siddique, R., "Compressive Strength, Water Absorption, Sorptivity, Abrasion Resistance And Permeability Of Self-Compacting Concrete Containing Coal Bottom Ash," Construction And Building Materials (Elsevier), Vol. 47, Dec 2013, pp. 1444-1450.

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13. Siddique, R., and Sandhu, R. K., "Properties of Self-Compacting Concrete Incorporating Waste Foundry Sand", Leonardo Journal of Sciences (LJS), Vol. 23, Dec 2013, pp. 105-124.

14. Humam, T., and Siddique, R., "Properties of Mortar Incorporating Iron Slag", Leonardo Journal of Sciences (LJS), Vol. 23, Dec 2013, pp. 53-60.

15. Siddique, R., "Properties of Fine Aggregate-Replaced High Volume Class F Fly Ash Concrete", Leonardo Journal of Sciences (LJS), Vol. 22, 2013, pp. 79-90.

16. Agarwal, P., Agarwal, Y., Siddique, R., Gupta, S., and Garg, H., "Fuzzy Logic Modelling Of Compressive Strength Of High Strength Concrete (HSC) With Supplementary Cementitious Material", Journal of Sustainable Cement-Based Materials (Taylor & Francis), Vol. 2, No. 2, June 2013, pp. 128-143.

17. Kunal, Rajor, A., and Siddique, R., "Biological Treatment of Alkaline Cement Kiln Dust By Using Alkalitolerant Bacteria," Journal of Pure and Applied Microbiology, Vol. 7 No. 3, Sep 2013, pp. 1933-1942

18. Kaur, G., Siddique, R., and Rajor, A., "Influence of Fungus on Properties of Concrete Made With Waste Foundry Sand," Journal of Materials in Civil Engineering (ASCE), Vol. 25, 2013, pp. 484-490.

19. Chahal, N., Siddique, R., "Permeation Properties of Concrete Made With Fly Ash and Silica Fume: Influence of Ureolytic Bacteria," Construction and Building Materials (Elsevier), Vol. 49, Dec 2013, pp. 161-174.

20. Siddique, R., "Properties of Fine Aggregate-Replaced High Volume Class F Fly Ash Concrete", Leonardo Journal of Sciences (LJS), Vol. 22, 2013, pp. 79-90

21. Singh, M., Siddique, R. "Effect of Coal Bottom Ash as Partial Replacement of Sand on Properties of Concrete," Resources, Conservation and Recycling, Vol. 72, March 2013, pp. 20-32.

22. Siddique, R., Aggarwal P., and Aggarwal, Y., "Mechanical and Durability Properties of Self-Compacting Concrete containing Fly ash and Bottom ash," Journal of Sustainable Cement-Based Materials (Taylor & Francis), Vol. 1, No. 3, Sept 2012, pp. 67-82.

23. Siddique, R., Kadri, E.H., "Properties of High-Volume Fly Ash Concrete Reinforced with Natural Fibres," Leonardo Journal of Sciences (LJS), Issue 21, 2012, pp. 83-98.

24. Kaur, G., Siddique, R., and Rajor, A., Micro- Structural and Metal Leachate Analysis of Concrete Made With Fungal Treated Waste Foundry Sand," Construction and Building Materials (Elsevier), Vol. 38, Jan 2013, pp. 94-100.

25. Siddique, R., and Bennacer, R., "Use of Iron And Steel Industry By-Product (GGBS) In Cement Paste," Journal of Resources, Conservation and Recycling (Elsevier), Vol. 69, Dec 2012, pp. 29-34.

26. Chahal, N., Siddique, R., and Rajor, A., "Influence of Bacteria on the Compressive Strength, Water Absorption and Rapid Chloride Permeability of Concrete Incorporating Silica Fume," Construction and Building Materials (Elsevier), Vol. 37, Dec 2012, pp. 645-651.

27. Siddique, R., "Utilization of Wood Ash in Concrete Manufacturing," Journal of Resources, Conservation and Recycling (Elsevier), Vol. 67, October 2012, pp. 27-33

28. Siddique, R., "Properties of Concrete made with Volcanic Ash," Journal of Resources, Conservation and Recycling (Elsevier), Vol. 66, Sep 2012, pp. 40-44.

29. Pathak, N., and Siddique, R., "Effects of Elevated Temperatures on Properties of Self-Compacting-Concrete Containing Fly ash and Spent Foundry sand," Construction and Building Materials (Elsevier), Vol. 34, September 2012, pp. 512-521.

30. Siddique, R., "Strength Properties of HVFA Concrete at High Temperature," Kuwait Journal of Engineering & Science, Kuwait University, Vol. 39, No. 1B, June 2012, pp. 1-14.

31. Pathak, N., and Siddique, R., "Properties of Self-Compacting Concrete Containing Fly Ash Subjected to Elevated Temperatures," Construction and Building Materials (Elsevier), Vol. 30, May 2012, Pages 274-280.

32. Kunal, Siddique, R., and Rajor, A., "Use of Cement Kiln Dust in Cement Concrete and its Leachate Characteristic," Journal of Resources, Conservation and Recycling (Elsevier), Vol. 61, April 2012, pp. 59-68.

33. Siddique, R.,and Kaur, D., "Properties of Concrete Containing Ground Granulated Blast Furnace Slag (GGBS) at Elevated Temperature," Journal of Advanced Research (Elsevier), Vol 3, No. 1, January 2012, pp. 45-51.

34. Siddique, R., Kapoor, K., Kadri E.H., and Bennacer, R., "Effect of Polyester Fibres on the Compressive Strength and Abrasion Resistance of HVFA Concrete," Construction and Building Materials (Elsevier), Vol. 29, April 2012, pp. 270-278.

35. Siddique, R., Aggarwal P., and Aggarwal, Y., "Influence of Water/Powder Ratio on Strength Properties of Self-Compacting Concrete Containing Coal Fly Ash and Bottom Ash", Construction and Building Materials (Elsevier), Vol. 29, No. 4, 2012, pp. 73-81.

36. Khan, M. I., and Siddique, R., "Utilization of Silica fume in Concrete: Review of Durability Properties," Journal of Resources, Conservation and Recycling (Elsevier), Vol. 57, Dec 2011, pp. 30-35.

37. Singh, G., and Siddique, R., "Abrasion Resistance and Strength Properties of Concrete Containing Waste Foundry Sand (WFS)," Construction and Building Materials (Elsevier), Vol. 28, 2012, pp. 421-426.

38. Kaur, G., Siddique, R., and Rajor, A., "Properties of Concrete Containing Fungal Treated Waste Foundry Sand," Construction and Building Materials (Elsevier), Vol. 29, No. 4, 2012, pp. 82-87.

39. Chahal, N., Siddique, R., and Rajor, A., "Influence of Bacteria on the Compressive Strength, Water Absorption, ad Rapid Chloride Permeability of Fly Ash Concrete," Construction and Building Materials (Elsevier).), Vol. 28, No. 1, 2012, pp. 351-356.

40. Ezziane K., Kadri, E. H., and Siddique, R., "Investigation of Slag Cement Quality through the Analysis of its Efficiency Coefficient," European Journal of Environmental and Civil Engineering, Vol. 15, No. 11, 2011, pp. 1393-1411.

41. Siddique, R., "Effect of Volcanic Ash on the Properties of Cement Paste and Mortar," Journal of Resources, Conservation and Recycling (Elsevier), Vol. 56, No. 1, 2011, pp. 66-70.

42. Kadri, E.H., Kenai, S., Ezziane, K., Siddique, R., and Shutter, D., "Influence of metakaolin and silica fume on the heat of hydration and compressive strength development of mortar," Applied Clay Science (Elsevier), Vol. 53, No. 4, 2011, pp. Pages 704-708.

43. Chahal, N., Siddique, R., and Rajor, A., "Calcium Carbonate Precipitation by Different Bacterial Strains", African Journal of Microbiology, Vol. 10, No. 42, 2011, pp. 8359-8372.

44. Singh, G., and Siddique, R., "Effect of Waste Foundry Sand (WFS) as Partial Replacement of Sand on the Strength, Ultrasonic Pulse Velocity and Permeability of Concrete," Construction and Building Materials (Elsevier), Vol. 26, No. 1, 2012, pp. 416-422.

45. Siddique, R., "Utilization of Silica Fume in Concrete: Review of Hardened Properties," Journal of Resources, Conservation and Recycling (Elsevier), Vol. 55, No. 11, 2011, pp. 923-932.

46. Siddique, R., Aggarwal P., and Aggarwal, Y., "Prediction of Compressive Strength of Self-Compacting Concrete Containing Bottom Ash using ANN", Advances in Engineering Software (Elsevier), Vol. 42, No. 10, 2011, pp. 780-786.

47. Siddique, R., Singh, G., "Utilization of Waste Foundry Sand (WFS) in Concrete Manufacturing," Journal of Resources, Conservation and Recycling (Elsevier), Vol. 55, No. 11, 2011, pp. 885-892.

48. Siddique, R., and Chahal, N., "Effect of Ureolytic Bacteria on Properties of Concrete," Construction and Building Materials (Elsevier), Vol. 25, No. 10, 2011, pp. 3791-3801.

49. Siddique, R., and Chahal, N., "Use of silicon and ferrosilicon industry by-products (Silica Fume) in Cement Paste and Mortar," Journal of Resources, Conservation and Recycling (Elsevier), Vol. 55, No. 8, 2011, pp. 739-744.

50. Siddique, R.,and Kadri, E.H., "Effect of Metakaolin and Foundry Sand on the Near Surface Characteristics of Concrete," Construction and Building Materials (Elsevier), Vol. 25, No. 4, 2011, pp. 3257-3266.

51. Siddique, R., and Noumowe, A., "An Overview of the Properties of High-Strength Concrete Subjected to Elevated Temperatures," Indoor and Built Environment (SAGE), Vol. 19, No. 6, 2010, pp. 612-622.

52. Siddique, R., "Wear Resistance of High-Volume Fly Ash Concrete," Leonardo Journal of Sciences, Vol. 17, December 2010, pp. p. 21-36.

53. Siddique, R., Aggarwal Y., Aggarwal, P., Kadri, E., and Rachid, B., "Strength, Durability and Microstructural Properties of concrete made with used-foundry sand (UFS)," Construction and Building Materials (Elsevier), Vol. 25, No. 4, 2011, pp. 1916-1925.

54. Siddique, R. "Properties of self-compacting concrete containing class F fly ash," Materials & Design (Elsevier), Vol. 32, 2011, pp. 1501-1507.

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APPENDIX- D

Chairman of Technical Session/ Key-Note/ Expert Lectured Delivered

1. "Effect of Bacteria on the Properties of Fly Ash Concrete," at the 8th International Symposium of Cement & Concrete (ISCC), Nanjing, China Sep 20-23, 2013

2. "Utilization of Industrial By-products in Concrete" at Tongji University, Shanghai, ChinaSep 24-26, 103.

3. "Design & Development of Concrete Using Waste Foundry Sand as Partial Replacement of Fine Aggregate," at the 13th East Asia Pacific Conference of Structural Engineering & Construction (EASEC-13), Sapporo, Japan, Sep 11-13, 2013.

4. "Re-Use of Spent Foundry Sand in Construction Materials" International Conference on Eco Materials, 2iE, ***Ouagadougou, Burkina*** Faso, June 11, 2013.

5. "Utilization of Wood Ash in making Structural Concrete" International Conference on Eco Materials, 2iE, ***Ouagadougou, Burkina Faso***, June 12, 2013

6. "Enhancing the durability of Concrete made with Supplementary Cementing Materials: Microbial Effect", Hunan University, ***Changsha, China***, Nov 12, 2012

7. "Utilization of Waste Foundry Sand in Concrete" South China University of Technology, ***Guangzhou, China***, Nov 15, 2012

8. "Microbial Concrete" South China University of Technology, ***Guangzhou, China***, Nov 15, 2012

9. "Silica Fume Bacterial Concrete", Istanbul Technical University, ***Istanbul, Turkey***, June 26, 2012.

10. "Utilization of By-Products in Concrete" Istanbul Technical University, ***Istanbul, Turkey***, June 27, 2012.

11. "Microbial Effects on the Properties of Fly Ash Concrete", ENS ***Cachan, France***, June 14, 2012.

12. "Durable Concrete with the Use of Waste Foundry Sand", ENS, ***Cachan, France***, June 14, 2012

13. "Microbial Concrete" at American University of Sharjah, ***UAE***, Dec 26, 2011.

14. "Microbial Effects: Way to Enhance the Durability of Concrete", HKUST, ***Hong Kong***, September 2, 2011.

15. "Use of Metakaolin in Concrete" at the University of Aveiro, ***Portugal,*** June 8, 2011.

16. "Recycling of Waste Materials for Concrete Manufacturing", Concordia University, ***Montreal, Canada***, September 30, 2010.

17. "Utilization of By-Products in Concrete Manufacturing", First International Conference on Recycling and Reuse of Materials and their Products (ICRM – 2009), Kottayam, ***Kerala, India***, July 18, 2009

18. "Use of Industrial By-Products in Concrete Manufacturing", BAM, Federal Institute for Materials Research and Testing, ***Berlin, Germany***, July 8, 2009.

19. "Self-Compacting Concrete made with Coal Fly ash and Bottom Ash", BAM, Federal Institute for Materials Research and Testing, ***Berlin, Germany***, June 29, 2009.

20. "Use of Wood Ash and Spent Foundry Sand in Making Concrete" EPFL, ***Lausanne, Switzerland***, June 8, 2009.

21. "Recent Developments in the Utilization of CCBs in Cement-Based Materials", SVNIT, Surat, India, January 13, 2009.

22. "Supplementary Cementing Materials in Concrete", the Executive Development Program organized by Construction Industry Development Council, **Chennai**, October 22, 2008.

23. "Developments in Self-Compacting Concrete Incorporating Supplementary Materials", Consolis Technology, ***Rusko, Finland***, July 10, 2008.

24. "Utilizing Waste Materials and By-Products in Concrete", Consolis Technology, ***Rusko, Finland***, July 4, 2008.

25. "Construction Quality Management", Executive Development Program organized by Construction Industry Development Council, ***New Delhi***, February 8, 2008.

26. "Role of CCBs in Cement-Based Materials", Short-Term Course on Advances in Civil Engineering, National Institute of Technology, ***Kurukshetra, India,*** January 22, 2008.

27. "Developments in High Performance Concrete", Short-Term Course on Advances in Civil Engineering, National Institute of Technology, ***Kurukshetra, India,*** January 22, 2008.

28. "Latest developments in Combustion By-Products in Sustainable Construction Materials",Politecnico di Milano, ***Milan, Italy***, September 10, 2007.

29. "Utilization of Combustion By-Products in Sustainable Construction Materials", University of Bath, ***Bath SPA, U.K.***, July 4, 2007.

30. "Role of Supplementary Cementing Materials in Sustainable Construction Materials" Queens University, ***Belfast, Northern Ireland***, June 25, 2007.

31. "Utilization of Wood ash in Sustainable Construction Materials", University of Wolverhampton, ***Wolverhampton, U.K***. June 20, 2007.

32. "Concrete Quality in Construction", Executive Development Program organized by Construction Industry Development Council, ***New Delhi***, March 10, 2007.

33. "Use of Coal Combustion Materials in Civil Engineering Materials", National Conference & Exhibition on Civil Engineering: Meeting the Challenges of Tomorrow (CEMCT-2006), ***Ludhiana, Punjab***, India, Nov 24-25, 2006.

34. "Utilization of Wood Ash in Concrete: A New Pozzolanic Material", University of Canterbury, ***Christchurch, New Zealand***, August 4, 2006.

35. ""Utilization of Wood Ash in Concrete: A New Pozzolanic Material", Ghent University, ***Ghent, Belgium***, July 6, 2006.

36. "Utilization of Wood Ash in Concrete: A New Pozzolanic Material", INSA ***Rennes, France***, June 8, 2006.

37. "Properties Fly Ash Fibre Reinforced Concrete", Executive Development Program organized by Construction Industry Development Council, ***Jammu, India***, October 6-8, 2005.

38. "Properties of High-Strength Fly Ash Concrete", Executive Development Program organized by Construction Industry Development Council, ***Jammu, India***, October 6-8, 2005.

39. "High Performance Concrete", Executive Development Program organized by Construction Industry Development Council, ***Jammu, India***, October 6-8, 2005.

40. "Fly Ash and its Application in Concrete", Executive Development Program organized by Construction Industry Development Council, ***Jammu, India***, October 6-8, 2005.

41. "Self-Compacting Concrete" at the Executive Development Program organized by Construction Industry Development Council, ***Jammu, India***, September 1-3, 2005.

42. "Applications of Fibre Reinforce Concrete", Executive Development Program organized by Construction Industry Development Council, ***Jammu, India***, September 1-3, 2005.

43. "Concrete Quality and New Concretes", Executive Development Program organized by Construction Industry Development Council, ***Jammu, India***, September 1-3, 2005.

44. "Emerging Trends in Concrete Technology", Executive Development Program organized by Construction Industry Development Council, ***New Delhi, India***, August 22-24, 2005.

45. "Fibre Reinforced Concrete", Executive Development Program organized by Construction Industry Development Council, ***New Delhi, India***, August 23, 2005.

46. "Utilization of By-Products in Construction Materials", INSA, ***Toulouse, France***, July 8, 2005.

47. "Coal Combustion By-Products", University of Cergy Pontoise, ***Cergy Pontoise, France***, June 22, 2005.

48. "Emerging Trends in Concrete Technology", Executive Development Program organized by Construction Industry Development Council, ***New Delhi, India***, January 7, 2005.

49. "Fibre Reinforced Concrete – A material for Infrastructure Projects", National Institute of Construction Management & Research, ***New Delhi, India***, November 9, 2004.

50. "Fly Ash Concrete" on the Concrete Day (October 9), Thapar Institute of Technology & Science (Deemed University), ***Patiala, India***, October 9, 2004.

51. "Fibre Reinforced Concrete", Executive Development Program organized by Construction Industry Development Council, ***New Delhi, India***, September 13, 2004

52. "Role of Combustion By-Products in Construction Materials, 2nd National Conference on Advances on Concrete Technology (ACT-2004), Thapar Institute of Technology & Science (Deemed University), ***Patiala, India***, Feb 26-27, 2004.

53. Chaired a technical session at the 19th International Conference on Solid Waste Technology & Management, Widener University, ***Philadelphia***, ***USA***, March 21-24, 2004,

APPENDIX – E
International/Foreign Visits

1. **Visited China in Sep 2013** as Invited Speaker for delivering of lectures on "Effect of Bacteria on the Properties of Fly Ash Concrete," at the 8th International Symposium of Cement & Concrete (ISCC), Nanjing, Sep 20-23, 2013 & "Utilization of Industrial By-products in Concrete" at Tongji University, Shanghai, Sep 24-26, 103.

2. **Visited Japan in Sep 2013** to present paper titled "Design & Development of Concrete Using Waste Foundry Sand as Partial Replacement of Fine Aggregate," at the 13th East Asia Pacific Conference of Structural Engineering & Construction (EASEC-13), Sapporo, Japan, Sep 11-13, 2013.

3. **Visited Burkina Faso in June 2013** as Invited Speaker for lectures on Spent Foundry Sand and Wood Ash Concrete at International Conference on Eco Materials, 2iE, Ouagadougou, Burkina Faso, June 10-12, 2013.

4. **Visited China in Nov 2012** as Invited Speaker for delivering of lectures on Microbial Concrete, Waste Foundry Sand Concrete at Hunan University, Changsha & South Chiana University of Technology, Guangzhou, China from Nov 10-18, 2012.

5. **Visited Turkey in June 2012** as Invited Speaker for delivering of lectures on Microbial Concrete, Self-Compacting Concrete, and Use of By-Products in Concrete, Istanbul Technical University, Turkey, June 25-29, 2012.

6. **Visited France in *June 2012*** as Invited Professor to ENS Cachan, France, June 5-30, 2012.

7. **Visited Mexico in March 2012** as Invited Speaker for delivering series of lectures on various topics of concrete technology such as Microbial Concrete, Fiber Reinforced Concrete, High Performance Concrete, Self-Compacting Concrete, and Use of By-Products in Concrete, University of Guanojuato, Mexico, March 26-30, 2012.

8. **Visited Sharjah, United Arab Emirates (UAE) in Dec 2011** as Invited Speaker to deliver a lecture on "Microbial Concrete", American University of Sharjah, UAE, Dec 26, 2011.

9. **Visited USA in September 2011** as Invited Researcher to the University of Wisconsin, Madison, September 5-20, 2011.

10. **Visited Hong Kong in September 2011** as Invited Speaker to deliver a lecture on "Microbial Concrete", HKUST, Hong Kong, September 2, 2011

11. **Visited Portugal in June *2011*** as Invited Speaker for a Workshop on Use of Metakaolin in Concrete, University of Aveiro, Portugal, June 8, 2011.

12. **Visited France in *Dec 2010*** as Visiting Professor to the University of Cergy Pontoise, Cergy Pontoise, France, Dec 1-20, 2010.

13. **Visiting Canada *in September 2010*** to present research paper at the 6th RILEM Conference on Self-Compacting Concrete, University of Sherbrooke, Montreal September 26-29, 2010.

14. **Visited Germany in *June-July 2009*** as Invited Researcher to the BAM, Berlin, Germany, June 24-July 14, 2009.

15. **Visited Switzerland in *June 2009*** for Invited Lecture at EPFL, Laussane, Switzerland June7-10, 2009.

16. **Visited France in *June 2009*** as Visiting Professor to the University of Cergy Pontoise, Cergy Pontoise, France, June 1-23, 2009.

17. **Visited Finland in *July 2008*** as Invited researcher at Consolis Technology, Rusko, Finland, July 2-13, 2008

18. **Visited France in *June 2008*** as Visiting Professor to the University of Cergy Pontoise, Cergy Pontoise, France, June 2-July 1, 2008.

19. **Visiting Italy** in September 2007 on the invitation of Politecnico di Milano, Milan, Italy, September 6-14, 2007.

20. **Visiting Belgium *in September 2007*** to present research paper at the 5th RILEM Conference on Self-Compacting Concrete, University of Ghent, Ghent, Belgium, September 3-5, 2007.

21. **Visited United Kingdom in *June-July 2007*** as Visiting Professor to the University of Wolverhampton, U.K.

22. **Visited New Zealand *in August 2006*** for research lecture at the University of Canterbury, Christchurch, New Zealand.

23. **Visited Belgium in *July 2006*** for academic/research interaction at Ghent University, Ghent, Belgium.

24. **Visited France in *June-July 2006*** as Visiting Professor to INSA Rennes, France.

25. **Visited France in *June-July 2005*** as Visiting Professor to the University of Cergy Pontoise, Cergy Pontoise, France.

26. **Visited USA in *March 2004*** to present paper at the 19th International Conference on Solid Waste Technology and Management, Widener University, Philadelphia, USA, March 21-24, 2004.

27. **Visited Germany in *October 2003*** to attend Seventh CANMET/ACI International Conference on Superplasticizers and Other Chemical Admixtures in Concrete, Berlin, Germany, October 20-23, 2003.

28. **Visited USA from *September 01, 2001 till June 30, 2003*** on Post-doctoral Research Associate-ship at the University of Wisconsin-Milwaukee, Milwaukee, USA.

29. **Visited USA in *December 2000*** to present a paper at the 16th International Conference on Solid Waste Technology and Management, Widener University, Philadelphia, USA, Dec 10-13, 2000.

30. **Visited Singapore in *November 1997*** to present a paper at the 5th International Conference on Structural Failures, Durability and Retrofitting, National University of Singapore, Singapore, Nov 27-28, 1997.

APPENDIX- F

Conferences/ Seminars/Workshops — Attended

1. 8th International Symposium of Cement & Concrete (ISCC), Nanjing, China, Sep 20-23, 2013

2. 13th East Asia Pacific Conference of Structural Engineering & Construction (EASEC-13), Sapporo, Japan, Sep 11-13, 2013.

3. International Conference on Eco Materials, 2iE, Ouagadougou, Burkina Faso, June 10-12, 2013.

4. Workshop on the Use of Metakaolin in Concrete" at the University of Aveiro, ***Portugal,*** June 8, 2011.

5. 6th International RILEM Symposium on Self-Compacting Concrete, University of Sherbrooke, Montreal, Canada, September 26-29, 2010.

6. First International Conference on Recycling and Reuse of Materials (Polymers, Wood, Leather, Glass, Metals, Ceramics, Semi Conductors etc) and their Products (ICRM – 2009), Kottayam, Kerala, India, July 17-19, 2009.

7. 5th International RILEM Symposium on Self-Compacting Concrete, University of Ghent, Belgium, September 3-5, 2007.

8. 19th International Conference on "Solid Waste Technology and Management," Widener
   University, Philadelphia, USA, Mar 21-24, 2004.

9. Seventh CANMET/ACI International Conference on "Superplasticizers and Other Chemical Admixtures in Concrete," Berlin, Germany, Oct 2003.

10. Workshop and Field Demonstration for Use of Flowable Slurry Containing Coal Ash, Sand, and Recyclable Products, UWM Center for By-Products Utilization, University of Wisconsin-Milwaukee, Milwaukee, USA, Aug 30, 2001.

11. International Conference on Solid Waste Technology & Management, Philadelphia,USA, Dec 10-12, 2000.

12. International Conference on "Structural Engineering," Ghaziabad, India, Sept 26-28,1999.

13. International Symposium on "Innovative World of Concrete," Calcutta, India, Nov 16-19, 1998.

14. 5th International Conference on "Structural Failures, Durability and Retrofitting,"National University of Singapore, Singapore, Nov 27-28, 1997.

15. International Seminar on “Civil Engineering Practices in Twenty First Century,” Roorkee, India, Feb 26-28, 1996.

16. National Conference on “Flyash - Waste or Wealth,” T.I.E.T., Patiala, India, Oct 27-28, 1995.

17. All India Seminar on “Economics and Management of Concrete Construction & its Maintenance,” Allahabad, India, Feb 24-25, 1994.

18. UGC Seminar on “Issues in Energy,” B.I.T.S., Pilani, India, Nov 29-30, 1993.

19. International Symposium on “Innovative World of Concrete,” Bangalore, India, Aug 30-Sept 01, 1993.
20. International Symposium on “Strides in Civil Engineering,” Madras, India, Mar 10-12,1993.

21. UGC Seminar on “Modern Trends in Civil Engineering,” B.I.T.S., Pilani, India, Feb 27-28, 1993.

22. National Seminar on “Low Cost Building Materials & Technologies,” Anantapur,India, Mar 20-21, 1992.

APPENDIX – G
Conferences/Workshop/Symposia/Courses – Organized

Number of conferences/seminars/ workshop, which were actively assisted in being organized as Member of organizing committee

1. Chairman, National Conference on 'Recent Trends in Highways and Bridges', Thapar Institute of Engineering & Technology, Patiala, India, Feb 18-19, 2005.

2. Chairman, National Conference on 'Advances in Concrete Technology' Thapar Institute of Engineering & Technology, Patiala, India, Feb 26-27, 2004.

3. Member, organizing Committee, "Workshop on the Recent Advances in Cementitious Materials ", UWM Center for By-Products Utilization, University of Wisconsin-Milwaukee, Milwaukee, USA, May 16-17, 2002.

4. Member, organizing Committee, "Workshop on the Use of Fly Ash and Other Coal Combustion Products in Concrete and Construction Materials", UWM Center for By-Products Utilization, University of Wisconsin-Milwaukee, Milwaukee, USA, March 18-19, 2002.

5. Member, organizing Committee, "Workshop and Construction Demonstration for Use of Wood Ash in Concrete and Flowable Slurry", UWM Center for By-Products Utilization, University of Wisconsin-Milwaukee, Milwaukee, USA, September 27, 2001.

6. Member, Organizing Committee, "National Seminar on Road Transportation", Thapar Institute of Engineering & Technology, Patiala, India, October 23- 24, 1998.

7. Member, Organizing Committee, "National Conference on Fly Ash - Waste or Wealth", Thapar Institute of Engineering & Technology, Patiala, India, October 27-28, 1995.

8. Member, Organizing Committee, National Workshop on "Air Pollution – Dispersing Modelling in Indian Context", Thapar Institute of Engineering & Technology, Patiala, India, October 27-28, 1994.

9. Member, Organizing Committee, UGC Seminar on "Modern Trends in Civil Engineering, Birla Institute of Technology & Science, Pilani, (Rajasthan), India, Feb 27-28, 1993.

10. Organized, under Quality Improvement Programme for Academics/Scientists/ Engineer's, a Short Term Course titled "Fiber Reinforced Concrete – A Revolutionary Material", T.I.E.T., Patiala, India, June 13-26, 1996.