

Mohammad Hossein Eftekhar



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PERSONAL INFORMATION

Date of birth: 17th, september, 1986
Marital status: Single
Nationality: Iranian
Place of birth: Tehran/Iran

EDUCATION

- 2010-2012 **Master of Civil Engineering- Geotechnic**
School of Civil Engineering, University of Tehran, Iran.
M.Sc. Thesis subject
'Study on Permeability of types of joints in Roller Compacted Concrete (RCC) dams'
Supervisor: Dr. Mohammad Shekarchi, Dr. Ali Fakher.
- 2004-2009 **Bachelor of Civil Engineering**
Department of Civil Engineering, University of Tehran, Iran.

ACADEMIC AND WORK EXPERIENCE

- 2005-2009 **Research Assistance**
Construction Materials Institute, University of Tehran
- 2009-2010 **Project Manager & Research Assistance**
Construction Materials Institute, University of Tehran
- 2009-present **Technical Manager**
Construction Materials Institute, University of Tehran

Technical & Research Project at CMI

1. Assessment of material loan in Aras Dam, 2006.
2. Control, Supervision of construction and concrete implementation of the Western Development Masoomeh Holly Shrine Project, 2008.
3. Assessment of existing Situation, presenting solution and quality improvement for 7 factory of Ready Mix concrete Industry in Iran, 2009-present.
4. Cooperation in preparing specification of Quality Control Tests and Requirements of concrete in the Sever Environmental Conditions, 2009-Present.
5. Investigation of reinforcement corrosion of Sewage Refinery Structure in Ahvaz City with aim of optimizing repair system and materials, Ahvaz, Iran, 2009-2010.
6. Study of performance of several water reducers admixture in concrete by Testing and analysis of Results with AHP (Analytical Hierarchy Process) method, 2011.
7. Possibility of using gas coefficient permeability instead of water coefficient permeability in Zirdan Dam, 2010.
8. Providing of mix design of concrete for 7th Water Treatment Plant of Tehran city, 2010.
9. Providing of mix design of mortar for using in prestressed concrete, 2012.
10. Providing of mix design of concrete in cold weather condition, 2012.
11. Standardization of decorative concrete with using color pigment in Urban Environments, 2012-present.
12. Assessment of bridges in Tehran with Destructive and nondestructive test, 2012-present.

- 2012-present **The Secretary of first workshop on Ready Mixed Concrete and Precast Concrete, Tehran, Iran**
- 2010-2012 **Teaching Assistant**
Foundation Analysis and Design

2011

The Secretary of Student Competition.

The 6th Light Weight Concrete (structural & non structural) competition with Participating more than 100 teams.

RESEARCH INTERESTS

- Durability of concrete structures and cementitious composites
- Quality Control & Quality Assessment of concrete
- Construction Materials Quality Management
- Microstructure of building materials
- Structural health monitoring
- Non-Destructive Testing of Concrete and Materials
- Alkali – Silica Reactions (ASR) in concrete structures, diagnosis, testing and modeling
- Roller Compacted Concrete Dams (RCC)
- Roller Compacted Concrete Pavements (RCCP)
- Decorative Concrete
- Permeability of concrete
- High Performance/Strength Concrete (HPC/HSC)
- Fiber Reinforced Concrete (FRC)

Scientific Lecture

- Alkali-Silica Reaction in concrete structure; Introduction of Basis, Evaluation, Repair and control methods, 2010.
- Roller Compacted Concretes, 2011.
- Concrete evaluation methods with emphasis on non-destructive testing methods, 2011.

AWARDS AND HONORS

- Awarded Full-Scholarship for the whole M.Sc. Courses, 2010 – 2012.
- Awarded Full-Scholarship for the whole B.Sc. Courses, 2003 – 2007.
- **ICI award winner 2th place** in the ICI cube competition, held along with Iranian Concrete Day conventions, 2006, Yazd, Iran.

Publications

Books (in progress)

Ready-Mixed Concrete: ASTM Standards and Related Information (in Persian)

Journal Publications (Published)

Shekarchi M., Ahmadi B., **Eftekhar H.** (2011), "A study on oxygen permeability of concrete", Journal of Faculty of Engineering, University of Tehran, Vol. 53, Special Issue. pp 109-119.

Journal Publications (in preparation)

Eftekhar M.H., Shekarchi M., Rastgoo S. "Study of Alkali-silica reactions in concrete by means of conventional test methods and nondestructive test methods".

Eftekhar M.H., Shekarchi M., Azari H. "selection proper admixture for concrete by Multiple Criteria Decision Making".

Eftekhar M.H., Shekarchi M., Fakher A." Study on Permeability of types of joints in Roller Compacted Concrete (RCC) dams".

Conference Paper

Layssi H., Shekarchi M., Abbasi M. and **Eftekhar H.** (2008), " Evaluation of the alkali-silica reactivity of rocks from Iran, Aras region", 13th International Conference on Alkali-Aggregate Reaction in Concrete(ICAAR), Trondheim, Norway, 9 pages.

Layssi H., Shekarchi M., Abbasi M. and **Eftekhar H.** (2008), “ COMPARATIVE STUDY OF METAKAOLIN AND SILICA FUME TO PREVENT ALKALI-SILICA REACTION IN CONCRETE”, 13th International Conference on Alkali-Aggregate Reaction in Concrete, (ICAAR), Trondheim, Norway, 5 pages.

Kalantari M., Eslami H., **Eftekhar H.**, Ashouri E. (2009), “Quality concrete solutions”, 1st national Concrete Conference, Tehran, Iran, 10 pages.

Hallaji M., Shekarchi M., Taheri R., Moradian M and Eftekhar H. (2011), “Durability of Reinforced Concrete Structures in a Petrochemical Complex:a Case Study”, XII DBMC, Porto, PORTUGAL, 2011, 8 pages.

S. Rastgoo Moghadam, M.Shekarchi, M.H Eftekhar, A.Dousti. (2011), “Evaluation and comparison of mechanical parameters in repair concrete with Impact-Echo test method”, 4th International Conference on Concrete Repair Concrete Solutions 2011 – Dresden.

Eftekhar M.H., Shekarchi M., Fakher A, Malek Mohammadi A., Hojabri S. (2012), “Study on Permeability of Roller Compacted Concrete (RCC) dams considering the Permeability of joints”, International Symposium on Dams for a change in world, ICOLD. Kyoto, Japan.

PROFESSIONAL MEMBERSHIPS

2009-2012 Alumni Association of Faculty of Engineering, University of Tehran
2008-present **ICI**, Iranian Concrete Institute
2008-present **ACI**, American Concrete Institute

COMPUTER SKILLS

General Software:

- MS- Word / Excel / PowerPoint [Excellent]
- Adobe Photoshop [Good]

Engineering Application:

- SAP / ETABS / [Excellent]
- ANSYS (Linear)
- Autodesk AutoCAD [Excellent]

Mathematical / Modeling Application:

- MATLAB [Good]
- FORTRAN [Good]

LANGUAGE SKILLS AND PROFICIENCY

English: Fluent
Persian: National native and first language

OTHER INTERESTS

I am interested in listening to the music and watching movies
I love hiking and playing soccer

REFEREES

Dr. Mohammad Shekarchi, Associate Professor, Director of Construction Materials Institute

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Dr. Ali Fakher, Associate Professor

School of Civil Engineering, University of Tehran, Enqelab Sq., Tehran, Iran

Phone: 0098-21-66403808, Fax: 0098-21- 66403808, E-mail: afakher@ut.ac.ir, Web: www.ut.ac.ir

Dr. Abbas Ghalandar Zadeh, Assistant Professor

Department of Civil Engineering, University of Guilan, Guilan, Iran

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