

Fahim Al-Neshawy
Staff Scientist
Department of Civil Engineering
Mineral Based Materials and Mechanics
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Qualifications

Doctoral degree, Engineering and Technology, Aalto University
Award Date: 20 Jun 2013

Licentiate degree, Engineering and Technology, Helsinki University of Technology
Award Date: 17 Dec 2007

Master's degree, Engineering and Technology, Helsinki University of Technology
Award Date: 16 Dec 1996

Employment

Staff Scientist

Staff Scientist
Department of Civil Engineering
Aalto University
1 Jun 2016 → present

Staff Scientist

Staff Scientist
Mineral Based Materials and Mechanics
Aalto University
1 Jun 2016 → present

Research output

Investigation on the effect of entrained air on pore structure in hardened concrete using MIP

Chen, Y., Al-Neshawy, F. & Punkki, J., 19 Jul 2021, In: Construction and Building Materials. 292, 13 p., 123441.

Characteristics of Entrained Air Voids in Hardened Concrete with the Method of Digital Image Analysis Coupled with Schwartz-Saltykov Conversion

Ojala, T., Chen, Y., Punkki, J. & Al-Neshawy, F., 1 May 2021, In: Materials. 14, 9, 20 p., 2439.

Critical studies in support of the ageing management of NPP concrete infrastructure (CONAGE)

Ferreira, M., Al-Neshawy, F., Bohner, E., Sistonen, E. & Huttunen-Saarivirta, E., 2021, *SAFIR2022 - The Finnish Research Programme on Nuclear Power Plant Safety 2019-2022*. VTT, p. 330-349 (VTT Technology; no. 383).

Factors for compactibility and risk of segregation for concrete: Report for contract research project "Compact Air"

Ojala, T., Ahmed, H., Vehmas, T., Chen, Y., Tauqir, A., Oey, T., Al-Neshawy, F., Leivo, M. & Punkki, J., 2021, AALTO-YLIOPISTO. 126 p. (Aalto University publication series SCIENCE + TECHNOLOGY; vol. 2021, no. 5)

Stability of Air Content in Fresh Concretes with PCE-Based Superplasticizers

Al-Neshawy, F., Ojala, T. & Punkki, J., Jul 2019, In: Nordic Concrete Research. 60, 1, p. 145-158 14 p.

Betonin koostumuksen vaikutus sen tiivistävyyteen: Raportti tilaustutkimusprojektista

Ojala, T., Al-Neshawy, F. & Punkki, J., 30 Jan 2019, AALTO-YLIOPISTO. 120 p. (Aalto-yliopiston julkaisusarja TIEDE + TEKNOLOGIA; vol. 2019, no. 1)

Construction of realistic NPP containment wall mock-up for challenging NDE methods

Ferreira, M., Bohner, E., Sjöblom, V., Al-Neshawy, F. & Ojala, T., 1 Jan 2019, *Proceedings of the fib Symposium 2019: Concrete - Innovations in Materials, Design and Structures*. Derkowski, W., Krajewski, P., Gwozdziwicz, P., Pantak, M. & Hojdys, L. (eds.). International Federation for Structural Concrete, p. 1651-1658 8 p. (Proceedings of the fib Symposium 2019: Concrete - Innovations in Materials, Design and Structures).

Early Age Autogenous Shrinkage of Fibre Reinforced Concrete

Ullah, F., Al-Neshawy, F. & Punkki, J., Dec 2018, In: *Nordic Concrete Research*. 59, 2/2018, p. 59-72 5.

Mock-up wall for NDT&E of NPP thick-walled reinforced concrete structures

Al-Neshawy, F., Ojala, T., Ferreira, M. & Puttonen, J., 1 Aug 2018, *12th European Conference on Non-Destructive Testing (ECNDT 2018)*. 10 p. (The e-Journal of Nondestructive Testing; vol. 23, no. 8).

Increase of Air Content of Concrete After Mixing

Al-Neshawy, F. & Punkki, J., 2018. 12 p.

Influence of PCE-Superplasticizers on the Stability of Concrete Air Content

Al-Neshawy, F., Ojala, T. & Punkki, J., 2018, *Superplasticizers and Other Chemical Admixtures in Concrete: Proceedings Twelfth International Conference*. Liu, J., Wang, Z., Holland, T. C., Huang, J. & Plank, J. (eds.). AMERICAN CONCRETE INSTITUTE, p. 405-419

NPP containment wall mock-up for long -term NDE and monitoring

Ferreira, M., Bohner, E. & Al-Neshawy, F., 23 Aug 2017, *XXIIIth Symposium on Nordic Concrete Research & Development - Proceedings*. Tange Hasholt, M. (ed.). Norsk Betongforening, p. 71 - 74 4 p. (Nordic concrete research).

"NDT MATRIX" - A Tool for Selecting Non-Destructive Testing Methods for NPP Concrete Structures

Al-Neshawy, F., Ferreira, M., Bohner, E. & Puttonen, J., 20 Aug 2017, *24th International Conference on Structural Mechanics in Reactor Technology - Proceedings*. International Association for Structural Mechanics in Reactor Technology, 10 p.

Robust Air – Tutkimus betonin ilmamäärän kohoamiseen vaikuttavista tekijöistä

Punkki, J. & Al-Neshawy, F., 2017, In: *Betoni*. 2017, 3, p. 74-79 6 p.

Securing the stable protective pore system of concrete - Report for "Robust Air"

Al-Neshawy, F. & Punkki, J., 2017, Aalto University. 105 p. (Aalto University publication series SCIENCE + TECHNOLOGY; vol. 2017, no. 10)

Stability of air-entrainment with PCE-superplasticizers

Al-Neshawy, F. & Punkki, J., 2017, *Proceedings of the XXIII Nordic Concrete Research Symposium*. Tange Hasholt, M. (ed.). Norsk Betongforening, p. 149-152 4 p. (Nordic concrete research).

Chemical changes of cement pastes due to the effect of combined carbonation and chloride penetration

Al-Neshawy, F., May 2016, In: *Nordic Concrete Research*. 54, 1/2016, p. 21-30 2.

Selection Matrix for Non-Destructive Testing of NPP Concrete Structures

Al-Neshawy, F., Sistonen, E., Puttonen, J., Ferreira, M. & Bohner, E., 2016, *19th World Conference on Non-Destructive Testing 2016: WCNDT 2016*. 9 p. (NDT.net).

AALTO UNIVERSITY SCHOOL OF ENGINEERING, Department of Civil and Structural Engineering, FINLAND : BASIC DATA OF THE ORGANIZATION

Al-Neshawy, F., Sistonen, E., Kari, O-P., Eik, M. & Puttonen, J., 2015, *1st Workshop of TU1404 Ljubljana, Slovenia, April 16-17, 2015*. Schlicke, D., Trtnik, G., Bosiljkov, B. V., Azenha, M. & Staquet, S. (eds.). Ljubljana: University of Ljubljana, Faculty of Civil and Geodetic Engineering, (UL-FGG) Slovenia, p. 28

Ageing Management Platform for Finnish NPP Concrete Infrastructure

Ferreira, M., Al-Neshawy, F. & Sistonen, E., 2015, *23rd Conference on Structural Mechanics in Reactor Technology Manchester, United Kingdom August 10-14, 2015*. UK: IASMiRT, p. 10

Ageing Management Platform For NPP Concrete Structures

Sistonen, E., Al-Neshawy, F. & Ferreira, M., 2015, *IABSE Workshop, Helsinki, Finland, February 11-12, 2015*. Kiviluoma, R. (ed.). Helsinki, p. 280-287

Implementation of a Contour Crafting System to a 3-Dimensional Concrete Printer

Nylund, J., Järf, A., Kekäle, K., Rönnskog, J., Al-Neshawy, F., Kiviluoma, P. & Kuosmanen, P., 2015, *10th International DAAAM Baltic Conference "INDUSTRIAL ENGINEERING", 12 - 13th May 2015, Tallinn, ESTONIA*. Otto, T. (ed.). Tallin: Tallinn University of Technology, p. 168-173

Optimized neural network based carbonation prediction model

Taffese, W. Z., Al-Neshawy, F., Sistonen, E. & Ferreira, M., 2015, *International Symposium Non-Destructive Testing in Civil Engineering, Berlin, Germany, September 15-17, 2015*. Herbert, W. (ed.). Berlin: Bundesanstalt für Materialforschung und prüfung (BAM), p. 1074-1083

Research Projects : Recent Research Projects related to the COST Action TU1404

Al-Neshawy, F., Sistonen, E., Kari, O-P., Eik, M. & Puttonen, J., 2015, *TU1401 COST action, 1st WORKSHOP with Focus on experimental testing of cement based materials held in Ljubljana, Slovenia, April, 16-17, 2015*. Schlicke, D., Azenha, M. & Staquet, S. (eds.). Ljubljana: University of Ljubljana, Faculty of Civil and Geodetic Engineering, (UL-FGG) Slovenia, p. 34

SAFIR2014- The Finnish Research Programme on Nuclear Power Plant Safety 2011-2014 Final Report. 38.1 MANAGE summary report - Ageing management of concrete structures in nuclear power plants (MANAGE)

Ferreira, M., Tuomisto, M., Stenlund, O., Sistonen, E. & Al-Neshawy, F., 2015, Kuopio, p. 592-603, (VTT Technology; no. 213).

von Konow Academy Database (TvK-DB). A database based on the accurate field research and laboratory studies of mortars initiated by PhD Thorborg von Konow

Al-Neshawy, F., 2015

Ageing Mechanisms of Building Structures and their Management

Al-Neshawy, F. & Sistonen, E., 2014, *1st International Conference on Ageing of Materials & Structures, AMS'14, Delft University of Technology, Delft, The Netherlands, 26-28 May 2014*, van Breugel, K. & Koenders, E. A. B. (eds.). Delft, The Netherlands: Delft University of Technology, p. 313-320

Development of a Database for the Restoration Mortars - von Konow DB

Sistonen, E., Mutanen, P. & Al-Neshawy, F., 2014, *1st International Conference on Ageing of Materials and Structures 2014 AMS'14, Delft, The Netherlands, 26-28 May 2014*. p. 40-47

von Konow Academy Database (TvK-DB). A database based on the accurate field research and laboratory studies of mortars initiated by PhD Thorborg von Konow

Al-Neshawy, F. & Sistonen, E., 2014

Inspection and Inspection Data Registering of Concrete Structures in Nuclear Power Plant

Vesikari, E., Ferreira, M., Sistonen, E., Al-Neshawy, F. & Piironen, J., 31 Jan 2013, VTT, 52 p. (VTT Research Report; no. VTT-R-06496-12).

Ydinvoimaloiden betonirakenteiden käytönaikainen tarkastus ja tarkastustietojen tallentaminen

Vesikari, E., Ferreira, M., Sistonen, E., Al-Neshawy, F. & Piironen, J., 31 Jan 2013, VTT, 52 p. (VTT Research Report; no. VTT-R-06495-12).

Ageing management of concrete structures in nuclear power plants (MANAGE)

Ferreira, R. M., Vesikari, E., Tuomisto, M., Stenlund, O., Hradil, P., Al-Neshawy, F. & Sistonen, E., 2013, *SAFIR2014 - The Finnish Research Programme on Nuclear Power Plant Safety 2011-2014 - Interim Report, VTT Technology 80, Espoo 2013, 447 p.* Simola, K. (ed.). Espoo: VTT, p. 363-372

Computerised prediction of the deterioration of concrete building facades caused by moisture and changes in temperature
Al-Neshawy, F., 2013, Aalto University. 226 p.

Condition Assessments and Corrosion Measurements of Cooling Water Chambers in a Nuclear Power Plant

Sistonen, E., Piironen, J., Al-Neshawy, F., Puttonen, J., Ferreira, M. & Vesikari, E., 2013, *22nd International Conference on Structural Mechanics in Reactor Technology, SMiRT-22, San Francisco, California, USA, August 18-23, 2013.* Ostadan, F. (ed.). USA: International Association for Structural Mechanics in Reactor Technology, p. 7

Developing a Computerized Aging Management System for Concrete Structures in Finnish Nuclear Power Plants

Al-Neshawy, F., Piironen, J., Sistonen, E., Vesikari, E., Tuomisto, M., Hradil, P. & Ferreira, M., 2013, *International Workshop NUCPERF 2012: Long-Term Performance of Cementitious Barriers and Reinforced Concrete in Nuclear Power Plant and Radioactive Waste Storage and Disposal (RILEM Event TC 226-CNM and EFC Event 351)*. L'Hostis, V. & Gens, R. (eds.). EDP SCIENCES, p. 1-8 03001. (EPJ Web of Conferences ; vol. 56).

Development of database for the in-service inspection of the concrete structures of the Finnish Nuclear Power Plants

Al-Neshawy, F., Sistonen, E., Vesikari, E. & Ferreira, M., 2013, *IABSE Workshop on Safety, Failures and Robustness of Large Structures, Tuusula, Finland, February 14-15, 2013.* - International Association for Bridge, IABSE. & Engineering, S. (eds.). Finland: Finnish Group of IABSE, Finnish Association of Civil Engineers RIL, p. 226-233

Integral approach to service life management of NPP concrete infrastructure: From inspection database to predictive durability performance

Ferreira, M., Vesikari, E., Al-Neshawy, F. & Sistonen, E., 2013, *22nd International Conference on Structural Mechanics in Reactor Technology, SMiRT-22, San Francisco, California, USA, August 18-23, 2013.* Ostadan, F. (ed.). USA: International Association for Structural Mechanics in Reactor Technology, p. 10

Monitoring, Evaluation and Long-term Forecasting of Hygrothermal Performance of Thick-walled Concrete Structure

Taffese, W. Z., Al-Neshawy, F., Piironen, J., Sistonen, E. & Puttonen, J., 2013, *OECD-NEA, CSNI Working Group on the Integrity and Ageing of Components and Structures (WGIAGE), Workshop on "Non-destructive Evaluation of Thick Walled Concrete Structures" organized by ÚJV Rež, a. s.* p. 13

Analysis of the moisture performance of wall structures at the zero-energy Luukku-house

Al-Neshawy, F., Lylykangas, K., Piironen, J., Peittola, M. & Puttonen, J., 2012, *IABSE CONFERENCE SHARM EL SHEIKH, EGYPT 7-9th May 2012.* Egypt

Effect of different Repair Techniques on the Hygrothermal Performance of Concrete Façades

Al-Neshawy, F., Piironen, J., Sistonen, E. & Puttonen, J., 2012, *V International PhD Student Workshop on Durability of Reinforced Concrete From Composition to Service Life Design, Espoo, Finland, February 9-10, 2012.* Ferreira, R. M., Gulikers, J. & Andrade, C. (eds.). Espoo: VTT, p. 107-121

Working Plan for the Aging Management System of Concrete Structures in Finnish Nuclear Power Plants

Vesikari, E., Tuomisto, M., Hradil, P., Calonijs, K., Al-Neshawy, F. & Sistonen, E., 2012, Espoo, p. 63.

Computerized assessment of the moisture and thermal originated deterioration of concrete facades

Al-Neshawy, F., Piironen, J. & Puttonen, J., 2011, *Concrete Solutions.* Grantham, M., Mechtcherine, V. & Schneck, U. (eds.). p. 343-347 5 p.

Effect of interacted deterioration parameters on service life of concrete structures in cold environments, Laboratory test results 2009 - 2010

Leivo, M., Sistonen, E., Al-Neshawy, F., Piironen, J., Kuosa, H., Holt, E., Koskinen, P. & Nordqvist, C., 2011, Espoo, p. 103.

Effect of NaCl and different CO2 concentrations on the mineral compositions of a hardened cement paste

Al-Neshawy, F., Sistonen, E. & Piironen, J., 2011, *21st Nordic Concrete Research Symposium, Hämeenlinna, 30.5.-1.6.2011*. Nordic Concrete Federation, p. 243-246

Monitoring System for Tracking the Hydrothermal Behaviour of the Building Structures

Mäkitalo, M., Al-Neshawy, F. & Laurila, T., 2011, *World Sustainable Building Conference, SB11, Helsinki*. Huovila, P. (ed.). Helsinki: Suomen rakennusinsinöörien liitto RIL

Network system for assessing the moisture and thermal behaviour of repaired concrete building facades

Al-Neshawy, F., Piironen, J., Peltola, S., Sistonen, E. & Puttonen, J., 2011, In: *Electronic Journal of Information Technology in Construction*. 16, paper 34, p. 601-616

The Effect of Cracking on Chloride Migration in Concrete

Piironen, J., Sistonen, E., Kari, O-P., Puttonen, J. & Al-Neshawy, F., 2011, *21st Nordic Research Symposium, Hämeenlinna, Finland, 30.5-1.6.2011*. Nordic Concrete Federation, p. 259-264

Wireless Monitoring Sensor System for Tracking the Hydrothermal Behaviour and Deterioration of Building Structures

Mäkitalo, M., Al-Neshawy, F. & Laurila, T., 2011, *Nordic Concrete Research Symposium, Hämeenlinna, 2011*. Mattila, J. (ed.). Norsk Betongforening, p. 447-451

Accounting for coupled deterioration mechanisms for durable concrete containing mineral by-products

Holt, E., Kuosa, H., Leivo, M., Al-Neshawy, F., Piironen, J. & Sistonen, E., 2010, *2nd International Conference on Sustainable Construction Materials and Technology, 28-30 June 2010. Ancona, Italy*. p. 1631-1642 12 p.

Measuring the bowing of marble panels in building facades using terrestrial laser scanning technology

Al-Neshawy, F., Piironen, J., Peltola, S., Erving, A., Heiska, N., Nuikka, M. & Puttonen, J., 2010, In: *Electronic Journal of Information Technology in Construction*. 15, p. 64-74

The use of ICT for monitoring the hygrothermal behavior of building structures

Al-Neshawy, F., Laurila, T., Vuorinen, V. & Mäkitalo, M., 2010, *CIB W78 2010, Kairo, Egypti, 16.-19.11.2010*. Professor Peter Barret, P. D. A. & Dr Richard Haig, D. K. K. (eds.). International council for Building, p. '

Assessment of the moisture and thermal performance of repaired building facades

Al-Neshawy, F., Sistonen, E., Piironen, J., Peltola, S. & Puttonen, J., 2009, *International ECCE Conference Current State and Challenges for Sustainable Development of Infrastructure Euroinfra 2009 Helsinki, Finland, October 15-16, 2009*. Professor, D. T. A. S. (ed.). Helsinki, Finland: ECCE European Council of Civil Engineers, p. 47-48

Monitoring Relative Humidity and Temperature for Life-Time Assessment of Sandwich-Type Concrete Structures

Al-Neshawy, F., Sistonen, E., Piironen, J., Peltola, S. & Puttonen, J., 2009, *20th International Conference on Structural Mechanics in Reactor Technology (SMIRT 20), Espoo, Finland, August 9-14, 2009*. VTT, p. 9

The Potential of Terrestrial Laser Scanning for Detecting the Deterioration of Building Facades

Al-Neshawy, F., Peltola, S., Piironen, J., Erving, A., Heiska, N., Salo, P., Nuikka, M., Kukko, A. & Puttonen, J., 2009, *Concrete Solutions: the International Conference on Concrete Solutions, Padua, Italy, 22-25 June 2009*. Grantham, M., Majorana, C. & Salomoni, V. (eds.). London, U.K., p. 395-399

The potential of the terrestrial laser scanning for geometrical building facades inspection

Al-Neshawy, F., Piironen, J., Peltola, S. & Puttonen, J., 2009, In: *Rakenteiden Mekaniikka (Journal of Structural Mechanics)*. 42, 4, p. 235-245

Detecting the Deterioration of Building Facades Using Terrestrial Laser Scanning Technique

Al-Neshawy, F., Pöntinen, P., Erving, A., Salo, P., Heiska, N., Kukko, A., Kaartinen, H. & Puttonen, J., 2008, *The IABSE Conference 'Information and Communication Technology (ICT) for Bridges, Buildings and Construction Practice' in Helsinki, Finland, June 4 6, 2008*.

KT-tietokanta (the database software) Tietokantaohjelma, johon kerätään kuntotutkimusten tiedot.

Al-Neshawy, F., Piironen, J., Sistonen, E. & Puttonen, J., 2008

Case Study of Using Self-Compacting Concrete in Balcony Repairs

Sistonen, E., Al-Neshawy, F., Piironen, J. & Huovinen, S., 2007, *CONSEC'07, Concrete under severe conditions: Environment and loading, Tours, France, June 4-6, 2007*. Toutlemonde et al., E. . (ed.).

Desing of database based on condition survey of concrete facades

Al-Neshawy, F., Sistonen, E., Piironen, J. & Huovinen, S., 2007, *CONSEC'07, Concrete under severe conditions: Environment and loading, Tours, France, June 4-6, 2007*. Toutlemonde et al, E. . (ed.). p. 1799

Korjatun julkisivurakenteen kosteusteknisen toiminnan seuranta

Al-Neshawy, F., Sistonen, E. & Piironen, J., 2007, *Tampere University of Technology, Institute of Structural Engineering, Rakennusfysiikka 2007. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. Seminaari 18 - 19.10.2007, Tampere, Finland, 2007*. Vinha, J. & Korpi, M. (eds.). Tampereen teknillinen yliopisto, Rakennetekniikan laitos, p. 143

New Method for Monitoring the Hygrothermal Condition of Repaired Facades

Al-Neshawy, F., Sistonen, E., Piironen, J. & Huovinen, S., 2007, *CONSEC'07, Concrete under severe conditions: Environment and loading, Tours, France, June 4-6, 2007*. Toutlemonde et al., E. . (ed.). p. 1807-1812

Ohjeistus 1960- ja 1970- luvuilla rakennettujen betonijulkisivujen ja -parvekkeiden kunnostamisesta

Sistonen, E., Al-Neshawy, F. & Puttonen, J., 2007, Espoo, p. 42, (Talonrakennustekniikan laboratorion julkaisusarja; no. 132).

Balcony Repair with Pumped Self-compacting Concrete

Sistonen, E., Piironen, J., Al-Neshawy, F. & Huovinen, S., 2006, *2nd International RILEM Symposium on Advances in Concrete through Science and Engineering, Quebec City, Canada, September 11-13, 2006*,. p. 14

Development of Database for Concrete Facades' Condition Survey

Al-Neshawy, F., Sistonen, E., Piironen, J. & Huovinen, S., 2006, *European Symposium on Service Life and Serviceability of Concrete Structures, ESCS-2006, Proceedings, Helsinki, Finland, June 12-14, 2006*,. p. 300

Intergrated management of Condition Survey Database for Concrete Facades

Al-Neshawy, F. & Piironen, J., 2006, p. 1, (2nd International RILEM Symposium on Advances in Concrete through Science and Engineering, Quebec City, Canada, September 11 - 13.2006).

Monitoring the Hygrothermal Performance of Repaired Concrete Facades

Al-Neshawy, F., Sistonen, E., Piironen, J. & Huovinen, S., 2006, *European Symposium on Service Life and Serviceability of Concrete Structures, ESCS-2006, Proceedings, Helsinki, Finland, June 12 - 14. 2006*.

The Development of a Condition Survey Database Management System and Hygrothermal Monitoring Method for Concrete Facades

Al-Neshawy, F., Sistonen, E., Piironen, J. & Huovinen, S., 2006, *Concrete Solutions 2006, Proceedings of the Second International Conference on Concrete Repair, St-Malo, Brittany, France, June 27-29, 2006*. p. 561

Using Self-compacting Concrete in Repairs

Sistonen, E., Al-Neshawy, F., Piironen, J. & Huovinen, S., 2006, *Concrete Solutions 2006, Proceedings of the Second International Conference on Concrete Repair, St-Malo, Brittany, France, June 27-29, 2006*.

Effect of Maintenance Measures on Service Life of Concrete Facades.

Sistonen, E., Al-Neshawy, F., Piironen, J. & Huovinen, S., 2005, *XIX Symposium on Nordic Concrete Research & Development - A meeting place for research and practice; Norway, Sandefjord: 12.-15.6.2005*. p. 217-219

RH and temperature Measurement (the communication software) Tietokoneohjelma, joka mittaa, kerää ja tallentaa kosteusmonitoriointin tiedot

Al-Neshawy, F., 2005

Itsetiivistyvien betonien suhteitus, valmistustekniikka ja perusominaisuudet

Mannonen, P., Al-Neshawy, F. & Räsänen, V., 2004, Espoo, p. 123, (Teknillinen korkeakoulu Rakennusmateriaalitekniikka; no. Julkaisu 16).

Internal and surface deterioration of concrete due to frost action

Penttala, V., Al-Neshawy, F., Lehtinen, T. & Räsänen, V., 2003, 15. *Internationale baustofftagung, Weimar, Germany 2003*. Fisher, H. B. (ed.). Weimar, Germany: F.A. Finger-Institut für Baustoffkunde, Bauhaus-Universität Weimar, p. 2-0601

Ice Formation and Pore Water Redistribution During 2-Cycle Freezing and Thawing of Concrete Mortars

Penttala, V. & Al-Neshawy, F., 2002, *Frost Damage in Concrete, Minneapolis, USA 28-30 June 1999*. Janssen, D. J., Setzer, M. J. & Snyder, M. B. (eds.). France, p. 115-126 (RILEM Proceedings; no. PRO 25).

Stress and strain state of concrete during freezing and thawing cycles

Penttala, V. & Al-Neshawy, F., 2002, In: *Cement and Concrete Research*. 32, 9, p. 1407-1420

Sementtimäärällä ja vesisementtisuhteella merkittävä vaikutus betonin kuivumisnopeuteen

Al-Neshawy, F., 1997, In: *Rnet*. 1, p. 51

Activities

Ernst Niederleithinger

Fahim Al-Neshawy (Host)

24 Oct 2018 → 26 Oct 2018

NDT&E Advanced Training Workshop

Fahim Al-Neshawy (Member)

27 Jun 2018 → 3 Jul 2018

Stability of air-entrainment with PCE-superplasticizers

Fahim Al-Neshawy (Contributor) & Jouni Punkki (Speaker)

25 Aug 2017

Mapei AS

Fahim Al-Neshawy (Visiting researcher) & Jouni Punkki (Visiting researcher)

2017

IABSE Workshop, Helsinki, Finland, February 11-12, 2015, Finland

Fahim Al-Neshawy (Contributor)

2015

SAFIR2014 FINAL SEMINAR, Hanasaari, Helsinki, Finland, 19.-20.3.2015, Finland

Fahim Al-Neshawy (Contributor)

2015

SMIRT-23 2015, 23rd International Conference on Structural Mechanics in Reactor Technology, SMIRT-23, Manchester, United Kingdom - August 10-14, 2015, United Kingdom

Fahim Al-Neshawy (Contributor)

2015

David Lange
Fahim Al-Neshawy (Host)
1 Jan 2014

1st International Conference on Ageing of Materials & Structures, AMS'14, Delft University of Technology, Delft, The Netherlands, 26 – 28 May 2014, Netherlands
Fahim Al-Neshawy (Contributor)
2014

University (External organisation)
Fahim Al-Neshawy (Chair)
2014

Vagelis Papadakis
Fahim Al-Neshawy (Host)
1 Jan 2013

IABSE Workshop, Helsinki, Finland, February 14-15, 2013, Finland
Fahim Al-Neshawy (Contributor)
2013

OECD-NEA, CSNI Working Group on the Integrity and Ageing of Components and Structures Workshop, Prague, Czech Republic 17-19.9.2013, Czech Republic
Fahim Al-Neshawy (Contributor)
2013

SAFIR2014 - Interim Seminar, Hanasaari, Swedish-Finnish Cultural Centre, 21.-22.3.2013, Finland
Fahim Al-Neshawy (Contributor)
2013

University (External organisation)
Fahim Al-Neshawy (Chair)
2013

Vagelis Papadakis
Fahim Al-Neshawy (Host)
1 Jan 2012

IABSE Conference on Global Thinking in Structural Engineering: Recent Achievements, Sharm El Sheikh, Egypt, 7-9 May 2012, Egypt
Fahim Al-Neshawy (Contributor)
2012

NUCPERF 2012 RILEM Event TC 226-CNM EFC Event 351, Cadarache, France 12-15 November 2012, France
Fahim Al-Neshawy (Contributor)
2012

Concrete Solutions 2011, 4th International Conference on Concrete Repair 26-28. Sept. 2011, Dresden, Germany, Germany
Fahim Al-Neshawy (Contributor)
2011

CIB W78 2010, 27th International Conference Applications of IT in the AEC Industry. Cairo, Egypt 16-18 November 2010., Egypt

Fahim Al-Neshawy (Contributor)
2010

20th International Conference on structural mechanics in reactor technology. Dipoli Congress Centre, Espoo (Helsinki), Finland. August 9-14, 2009, Finland

Fahim Al-Neshawy (Contributor)
2009

3rd International Conference on Concrete Repair (Concrete Solutions 2009), Venice/Padova, Italy 29 June-2 July 2009, Italy

Fahim Al-Neshawy (Contributor)
2009

Duralnt-Project Workshop: Effect of interacted deterioration parameters on service life of concrete structures in cold environments" March 2-4, 2009, VTT and TKK, Espoo, Finland, Finland

Fahim Al-Neshawy (Contributor)
2009

Euroinfra 2009, International ECCE Conference, October 15-16, 2009, Helsinki, Finland

Fahim Al-Neshawy (Contributor)
2009

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2009

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2007

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2007

Foundit Nordic/Salford Workshop 8-9 October 2007, Iso-Britannia

Fahim Al-Neshawy (Contributor)
2007

Foundit Nordic/Salford Workshop 8 - 9 October 2007, University of Salford, U.K., 2007., Iso-Britannia

Fahim Al-Neshawy (Contributor)
2007

Foundit Seminar, 12.-13.12.2007, Helsinki University of Technology, Finland, Finland

Fahim Al-Neshawy (Contributor)
2007

FOUNDIT SEMINAR, 3rd TWO-DAY SPRING WORKSHOP: MAPS, MODELS AND METHODS, Finland

Fahim Al-Neshawy (Contributor)
2007

Found Seminar, Helsinki University of Technology, 12 - 13.12.2007,, Finland

Fahim Al-Neshawy (Contributor)
2007

Concrete Solutions, 2nd International Conference on Concrete Repair, 27 – 29, June 2006, St-Malo, Brittan, France
Fahim Al-Neshawy (Contributor)
2006

European Symposium on Service Life and Serviceability of Concrete Structures, 12. - 14. June 2006, Helsinki, Finland
Fahim Al-Neshawy (Contributor)
2006

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2006

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2006

Nordic construction IT seminar, 29. - 30.3.2006, Espoo, Finland
Fahim Al-Neshawy (Contributor)
2006

The Nordic Graduate School for the Construction Sector, Lynby, DTU 12.12.2006
Fahim Al-Neshawy (Contributor)
2006

The Nordic Graduate School for the Construction Sector ,Tukholma, KTH 22.09.2006
Fahim Al-Neshawy (Contributor)
2006

XIX Symposium on Nordic Concrete Research & Development – A Meeting Place for Research and Practice, 12.-15.June, Sandefjord, Norway
Fahim Al-Neshawy (Contributor)
2005

Prizes

Student prize: Oskari Vilamon rahaston väitöskirjapalkinto 2014 Oskari Vilamon rahasto, Finland
Al-Neshawy, Fahim (Student prize recipient), 2014

Projects

CONAGE: Critical studies in support of the Ageing Management of NPP concrete infrastructure
Puttonen, J. & Al-Neshawy, F.
01/01/2022 → 31/01/2023

CONAGE: Critical studies in support of the Ageing Management of NPP concrete infrastructure
Puttonen, J., Al-Neshawy, F., Ahmed, H., Ojala, T. & Sistonen, E.
01/02/2019 → 31/01/2020

CONAGE: Critical studies in support of the Ageing Management of NPP concrete infrastructure
Puttonen, J., Al-Neshawy, F., Piironen, J., Ahmed, H. & Sistonen, E.
01/02/2020 → 31/01/2021

CONAGE: Critical studies in support of the Ageing Management of NPP concrete infrastructure
Puttonen, J., Al-Neshawy, F., Piironen, J. & Sistonen, E.

01/02/2021 → 31/01/2022

ConLoT: Durability Testing of Concrete in Long-Term Simulated Groundwater Conditions

Punkki, J., Al-Neshawy, F. & Ba Ragaa, A.

01/01/2022 → 31/01/2023

Duralnt (vtt)

Sistonen, E., Al-Neshawy, F., Piironen, J., Kari, O. & Sillanpää, M.

01/01/2010 → 31/12/2011

KYT2010 (VYR)

Sistonen, E., Piironen, J., Al-Neshawy, F. & Kari, O.

01/01/2010 → 31/12/2011

Lämmöneristettyjen kuorimuuriseinien emissiot

Piironen, J., Al-Neshawy, F., Kari, O. & Peltola, S.

01/01/2010 → 31/12/2011

Non destructive examination of NPP primary circuit components and concrete infrastructure

Huuskonen-Snicker, E., Al-Neshawy, F., Puttonen, J. & Ojala, T.

01/01/2017 → 31/01/2018

SAFIR2014-MANAGE (VYR)

Puttonen, J., Sistonen, E., Al-Neshawy, F., Piironen, J. & Kari, O.

01/01/2011 → 31/01/2015

WANDA (VYR)

Puttonen, J., Sistonen, E. & Al-Neshawy, F.

01/01/2015 → 31/01/2016

WANDA (VYR) 2018 - T21400

Puttonen, J., Al-Neshawy, F. & Ojala, T.

01/02/2018 → 31/01/2019