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She graduated from Istanbul University, Engineering Faculty, Department of Geological Engineering ranking first in 1987. She worked as a Quality Control Engineer, responsible for concrete and asphalt production with aggregate production facility at 2nd Bosphorus Bridge and its connection roads project in İstanbul in 1988. She started to work as a research assistant at the Applied Geology Division, Department of Geological Engineering in İstanbul University in 1989. In 1995, she completed her PhD thesis at the same department. She received her "Associate Professor" title in 1999 and "Professor" title in 2005. She is currently Head of Applied Geology Division at the same Department and responsible for Natural Stone Laboratory. In 2011, She worked as a Visiting Professor at Kent State University, Department of Geological Engineering and Virginia Tech University, Department of Mining Engineering in USA. Within that period, she made researches on some aggregate quarries.

She served as a Vice President for Europe in the International Association for Engineering Geology and the Environment (IAEG) between 2010 and 2014. She also served as a Vice President of IAEG Aggregate Commission, and as a President since 2004. She still continues this duty. She organized Aggregate Commission meetings and technical visits to aggregate quarries, marble quarries and recycling aggregate plants in USA, Canada, Brasil, New Zealand, Australia, China, France, Norway, Greece, Slovenia, Portugal, Russia, Italy and South Africa. She is also a member of the IAEG Commission on Ornamental and Building Stones. The IAEG Aggregate Commission is cooperating with the European Aggregates Association (UEPG).

Prof. Dr. Atiye TUĞRUL is a Honorary Member of the Aggregate Producer Association (AGUB) in Turkey, She was Vice Head of the Department of Geological Engineering in 2008-2011, and a member of the IAEG Turkish National Committee in 2000-2014. She was Secretary General of the same Committee between 2004 and 2010. She is founder board member of the Turkish Society for Engineering

Geology, which was established in 2014, and still in this position. She is Advisory Board Member of Turkish Mining Development Foundation since 2005.

She is mainly working on natural stone (Aggregate, marble, etc.) quality and engineering properties of rocks and soils, stability and rehabilitation studies in quarries, weathering of rocks, protection of stones used in historical buildings. She has got over than 150 national and international scientific publications. Seven PhD theses were completed under her supervision mainly on aggregates. She gave a speech at more than 10 international and national congresses or symposium as a keynote/invited speaker. During 4th Global Stone Congress which was held in Portugal in 2010, she gave a lecture on "Rehabilitation of Rock Quarries" as a "Key Note Speaker". During Asian Engineering Geology Conference which was held in China in 2012, she gave a lecture on "Aggregate Resource Planning in Megacities" as an invited speaker. She also gave a lecture titled "How to Solve the Aggregate Resource Problems in Megacities" at the 35th World Geological Congress, as invited speaker in 2016 in South Africa.

Several national and international research projects, mostly on aggregates, were carried out by the researcher. She participated in the project of "SNAP-SEE Planning Aggregate Supply", which was completed in 2014 to get her with Southern European countries. She made audits for CE Certification in many aggregate quarries to get her with the Turkish Ready Mixed Concrete Association, Quality Assurance System (KGS) in Turkey. She has been serving as a technical consultant for some mega projects (Marmara y Project etc.) or many aggregate quarries. She was Coordinator of many projects especially on aggregate quarries.

She has been serving as an assistant editor and referee for many international and national scientific journals. In 2002, She received the "Richard Wolter's" award from IAEG. She participated in organizing committee of the symposium on "Industrial Minerals and Building Stones" (IMBS 2003), which was organized in IAEG sponsorship, and several national scientific meetings. She was co-chair of 5th Global Stone Congress in Turkey in 2014. She also served as a chairman of the aggregates, natural stones and engineering geology sessions at several national and international symposium and continues to perform these tasks.