

Urban geology of Tabriz City: Environmental and geological constraints

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Abstract. Urban geology is the study of urban geologic environments to provide a scientific basis for rational land use planning and urban development and provides information on geologic environments as a basis for city planners. Based on AEG recommendations, urban geological studies covered the urbanism and historical backgrounds, geological setting, engineering geological constraints and environmental assessments of understudied cities. The aim of this study is to provide a good view of urban geology of Tabriz city the capital of East Azerbaijan province in Iran. The topics of discussions about Tabriz city urban geology are included geologic (geomorphology, geology, climatology and hydrogeology), engineering geological (earthquake, landslide and geotechnical hazards investigations) and environmental characteristics (air, soil and water hazards assessment). The results of the urban geologic studies indicated that Tabriz city in terms of engineering geological and environmental constraints is at high risk potential and in terms of seismic activity and landslide instability is highly potential. In terms of air, soil and water pollution there are many important environmental concern in this city.

Keywords: Tabriz; Azerbaijan; geology; engineering geology; civilization

1. Introduction

Urban geology provides information on geologic environments as a basis for city planners (Assari and Mahesh 2011a, b, Assari and Assari 2012, Assari *et al.* 2012a, b, 2016). Geological information of site investigation for municipal settings like site selection, design and construction of engineering structures is very critical (UNESCO 1997-1998, AEG 1982-2004, Hatheway 2005). Without detailed geological information in urban planning, construction or municipal development can impose additional costs and risks for hidden and apparent problems on the project (Gocmez *et al.* 2006). So the first and important step in the urban planning studies is to determine the geologic situation of cities. In this regard the urban geology has provided a good explanation.

Several years of professional experiences and studies in the urban geology has been published by the Association of Engineering Geologists (AEG 1982-2004). Nowadays, this technical advice is utilizing as a standard format in urban geological studies. Standard elements of urban geological considerations for cities by AEG recommendation is classified in 13 parts (SAIEG 1997). This procedure is generally classified into 4 major categories:

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Geology In Environmental Planning

Frank M. Wright



Geology In Environmental Planning:

Geology in Environmental Planning Arthur David Howard, Irwin Remson, 1978 Environmental Planning and Geology Donald R. Nichols, Catherine C. Campbell, 1971 *Environmental Planning and Geology* Donald R. Nichols, Catherine C. Campbell, 1971 **Geology for Environmental Planning in the Bennington-Manchester Region, Vermont** Frank M. Wright, 1975 **Geology for Environmental Planning in the Burlington-Middlebury Region, Vermont** David Perry Stewart, Frank M. Wright, 1973 **Geology for Environmental Planning in the Brattleboro-Windsor Region, Vermont** David Perry Stewart, 1975 **Engineering Geology and the Environment** Paul G. Marinos, 2001 This fourth volume of five from the June 1997 conference was much delayed the first four volumes were published in 1997 It comprises 23 special lectures solicited for the conference on various aspects of problematic soils natural and man made hazards urban and regional planning waste disposal mines and quarries large engineering works and protection of geological geographical historical and architectural heritage There is no subject index Annotation copyrighted by Book News Inc Portland OR **Geology for Environmental Planning in the Milton-St. Albans Region, Vermont** David Perry Stewart, 1974 Geology for Environmental Planning , 1987 Proceeding of an international symposium on geological mapping and environmental planning held in Trondheim Norway 6-9 May 1986 Program topics included environmental planning natural resources acid rain and other forms of pollution geological hazards and geomedicine

Geomorphology in Environmental Planning J. M. Hooke, 1988-09-13 Based on papers presented at a symposium held at the Institute of British Geographers Conference at Portsmouth January 1987 Contributors discuss how geomorphology can and should be incorporated into environmental policies planning and management Coverage ranges from agricultural land use to urban planning Leading authorities with practical experience of applications discuss what sort of geomorphological information is needed to whom or where it should be directed and how policies need to be formulated or changed Each study is followed by a case study Included are examples of the detrimental consequences and costs of ignorance of geomorphological processes in environmental planning Geology for Environmental Planning in the Johnson-Hardwick Region, Vermont Frank M. Wright, 1974 Geology for environmental planning" held in Trondheim, Norway, 6-9 May 1986 Fredrik C. Wolff, 1987 **Geology for Environmental Planning in Marion County, Indiana** , 1980 **Environmental Management in Practice** Elzbieta Broniewicz, 2011-07-05 In recent years the topic of environmental management has become very common In sustainable development conditions central and local governments much more often notice the need of acting in ways that diminish negative impact on environment Environmental management may take place on many different levels starting from global level e.g. climate changes through national and regional level environmental policy and ending on micro level This publication shows many examples of environmental management The diversity of presented aspects within environmental management and approaching the subject from the perspective of various countries contributes

greatly to the development of environmental management field of research *Geology for Environmental Planning in the Franklin Quadrangle, Southwestern Ohio* Richard Alan Wagner, 1974 **Environmental Planning and Geology** D. R. Nichols, 1971 **Environmental Planning and Geology; Proceedings** , 1971 *ENVIRONMENTAL AND ENGINEERING GEOLOGY -Volume I* Syed E. Hasan, Benedetto De Vivo, Bernhard Grasemann, Kurt Stüwe, Jan Lastovicka, Syed M. Hasan, Chen Yong , 2011-12-05 Environmental And Engineering Geology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Environmental and Engineering Geology with contributions from distinguished experts in the field discusses matters of great relevance to our world such as engineering and environmental geology and their importance in our life It also includes a discussion of some new applications of geoscience such as medical geology forensic geology use of underground space for human occupancy and geoindicators These four volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs **Geologic Mapping for Environmental Purposes** Harry Francis Ferguson, 1974 *Environmental Planning and Geology* , 1971

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