

To: Dr. Mihran Agbabian  
Dr. Armen Der Kiuregian  
Mr. Sarkis Acopian  
From: Vartan Tserounian *Vartan Tserounian*  
RE: Progress Report of AUA ERC/ESMC  
(November 1, 1992 - January 15, 1993)  
Date: February 4, 1993;

2 pages

By the end of December 1992 Industrial Engineering graduate students have completed their work for the term projects for the course "Environmental Risk Management" (IE - 290). The projects were supervised by Senior Associate of ESMC Aram Gabrielian (NEPM) and Vartan Tserounian. Also, Vartan Tserounian provided for the students all necessary supplementary materials and data for the projects published in the United States.

The titles of the term projects and the staff of the students' teams are listed below:

Group #1 - Armen Badalian, Nerses Kazarian, Yuri Boutaev, Ashot Hovhannissian;  
**"On Three Environmental Issues in Armenia"**,  
compiled from three major topics:

- i. Formation of the Photochemical Smog in Yerevan;
- ii. Comparison of Yerevan with Some Other Polluted Cities of the Former Soviet Union;
- iii. Armenian State Conception of the Atmospheric Protection.

Group #2 - Marina Baghdasarian, Margaret Hovhannissian, Margaret Hakopjanian;  
**"The Control of Air Pollution from Stationary Sources in Armenia"**.

Group #3 - Karen Galoyan, Arthur Lalayan, Ashot Mkrtchian and Grigor Sukiassian;  
**"The Analysis and Enhancement of Armenia's Existing Legislation on Air Pollution Control"**.

The term projects were send to the United States for evaluation by prof. John Gleason (course instructor).

Our cooperation with the Atmospheric Protection Department (NEPM) came up with the report "Suggestions for Evaluating the Environmental Damage Caused by Atmospheric Pollution and for Elaboration of the Method of Compensation". The purpose of developing of this suggestions resides in the fact that existing techniques for damage assessment and compensation (former USSR) hasn't gained acceptance for the contemporary conditions of Armenia. This suggestions are consistent with the article "h.47" of the "Atmosphere Protection Law of the Republic of Armenia". In case of accepting of this suggestions as amendments to the main law, it will be possible to work out methods manual. The concepts presented in the report can be extended to the other spheres of

environment (water, soil).

Starting from January 1, 1993 Dr. Vermishev's (Research Institute of the Ministry of Economics) associates Sos Avetian and Laura Hovannisian collaborate with ESMC. Their group has submitted their report (in Russian) "Data on Atmospheric Pollution in the Republic of Armenia", as part of the cooperative project with ESMC. This report contains valuable data on magnitude (level) and inventory of atmospheric emissions for the period 1990 - 1992 from stationary and mobile sources (industry, energetics and autotransport). Also, it contains materials representing the distribution of hazardous emissions over the republic (industrial centers).

On January 12, 1993 I have took part in the seminar held by NEPM on "Investigations on the Ozonosphere in Armenia". Nature and Environmental Protection Ministry is accomplishing a program to join to "Vienna Convention on Ozone Layer Protection" as well as "Montreal Protocol for the Substances Causing the Ozone Layer Depletion" and suggested AUA/ESMC to participate in this program.

The cooperation between AUA (ESMC) and NEPM has reached to such a level that registering officially of the agreement on creative collaboration is relevant and desirable.

It is assumed, according to that agreement that NEPM will provide for AUA ERC/ESMC materials, data and information on urgent environmental problems in Armenia and AUA ESMC will handle scientific - applicational and managemental elaborations and submit to NEPM for implementation.

CC: Dr. George Gibson