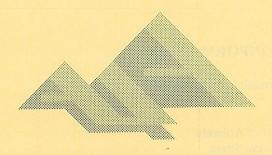
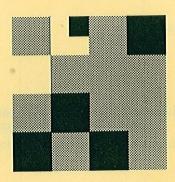
FINAL PROGRAM INTAS RESEARCHERS' SYMPOSIUM OCTOBER 10 & 11, 1995 YEREVAN, ARMENIA



AMERICAN UNIVERSITY OF ARMENIA



ENGINEERING RESEARCH CENTER

PURPOSE OF SYMPOSIUM

The purpose of this symposium is to bring together INTAS researchers from the Commonwealth of Independent States (CIS) and their European counterparts for an exchange of information, ideas, and research methodology.

LANGUAGE OF PRESENTATION

Papers will be presented in English, Armenian, or Russian. Simultaneous translation will be provided.

ADDITIONAL INFORMATION

For additional information, please contact:

Artak Hambarian American University of Armenia 40 Marshall Bagramian Street Yerevan, Armenia 375019

Phone: (3742) 27.10.75 Fax: (3742) 15.10.48

E-mail: ahambari@aua.arminco.com

COST

The workshop and symposium, including lunches and closing dinner, are free to persons presenting papers. Attendance at the sessions is free and open to the public. Attendees must pay for their own transportation and lodging.

ACKNOWLEDGEMENTS

The organizing committee would like to thank INTAS for providing the funding to support the symposium and participating researchers.

SCHEDULE

Day 0 (Monday, October 9)

11:00-13:00 Registration 13:00-15:00 Cognac Factory Tour

Day 1 (Tuesday, October 10)

08:00-09:00	Registration			
09:00-09:30	Welcome, Mihran Agbabian, President, American University of			
	Armenia and Armen Der Kiureghian, Dean, College of			
	Engineering, American University of Armenia			
09:30-10:30	The INTAS Program			
09:30-10:00	Jan-E Askeröi, Scientific Officer for Engineering, Aeronautics and Space, INTAS, Norway			
10:00-10:30	Discussion			
10:30-12:30	Technical Session 1 - Computational Methods			
	Chair: Rusk Masih			
10:30-11:00	"Hybrid Formulations for the Finite Element Method", Joao			
	Teixeira de Freitas, Centro de Mecanica e Engenharia			
	Estruturais, Portugal			
11:00-11:30	"Nonlinear Stochastic Analysis", Ashot Hakopian, American			
	University of Armenia			
11:30-12:00	"The Role of Nonlinear Analysis in Engineering Practice",			
	Scott Campbell, American University of Armenia			
12:00-12:30	"A New Method for Nonlinear Random Vibrations", Armen			
	Der Kiureghian, American University of Armenia/University			
	of California at Berkeley, USA			
12:30-14:00	Lunch			

SCHEDULE (cont.)

Day 1 (Tuesday, October 10) (cont.)

14:00-16:00	Technical Session 2 - Wave Propagation				
	Chair: Michael Melkumian				
14:00-14:30	"Soil-Structure Interaction Effects Applied to Environmental				
	Problems", Guido de Roeck, Katholieke Universiteit Leuven,				
	Belguim				
14:30-15:00	"A New Approach to the Investigation of Rayleigh Type Waves",				
	Sergey Ambartsumian and Mels Belubekian, Institute of				
	Mechanics of the Armenian National Academy of Science				
15:00-15:30	"A New Approach to the Waves Problem of Interaction Between				
15,00-15,50	Thin Deformable Structures and External Gas Flow", Mels				
	Belubekian and Mels Minassian, Institute of Mechanics of the				
	Armenian National Academy of Science				
15:30-16:00	"Wave Propagation in Anisotropic Medium", Vladimir Sarkisyan,				
15:30-16:00					
	Samvel Sarkisyan, and Astghik Sarkisyan, Department of				
	Mechanics, Yerevan State University				
16:15-17:15	Technical Session 3 - Seismic Resistance				
10.15-17.15	Chair: Scott Campbell				
16:15-16:45	"Testing of Metal-Rubber Seismic Isolation Bearings Under				
16:15-16:45	"Testing of Metal-Rubber Seismic Isolation Bearings Under				
16:15-16:45	Horizontal Seismic Load", Michael Melkumian, Valery				
16:15-16:45	Horizontal Seismic Load", Michael Melkumian, Valery Arzoumanian, Paruir Zadoyan, Tigran Nersessian, and Arthur				
16:15-16:45	Horizontal Seismic Load", Michael Melkumian, Valery Arzoumanian, Paruir Zadoyan, Tigran Nersessian, and Arthur Manoukian, Earthquake Engineering Center of the National				
	Horizontal Seismic Load", Michael Melkumian, Valery Arzoumanian, Paruir Zadoyan, Tigran Nersessian, and Arthur Manoukian, Earthquake Engineering Center of the National Survey of Seismic Protection				
16:15-16:45 16:45-17:15	Horizontal Seismic Load", Michael Melkumian, Valery Arzoumanian, Paruir Zadoyan, Tigran Nersessian, and Arthur Manoukian, Earthquake Engineering Center of the National Survey of Seismic Protection "Behavior of Frame Structure Strengthened by Steel Jacketing",				
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SCHEDULE (cont.)

Day 2 (Wednesday, October 11)

09:00-11:00	Technical Session 4 - Applied Mechanics					
	Chair: Ashot Hakopian					
09:00-09:30	"On Asymptotically Exact Solutions of One Class of Mixed Boundary Layer Problems of Elasticity Theory and Frequencies of					
	Free Vibrations of Foundations of Finite Power", Lenser					
	Aghalovian, Suren Gevorgian, and Avetik Sahakian, Institute of					
	Mechanics of the Armenian National Academy of Science					
09:30-10:00	"Sum Frequency Beam Analysis for Temporal and Spectral-					
07.50 10.00	Temporal Images Determination of Ultra-Short Laser Pulses",					
	Rudolf Gyuzalian, Institute for Physical Research of the Armenian					
	National Academy of Science					
10:00-10:30	"The Investigation of the Influence of the Earth Surface on the					
10.00-10.50	Intensity of Seismic Disturbances", Ashot Shekoyan, Alexander					
	Bagdoey, and Vladimir Ambartsumian, Institute of Mechanics of					
	the Armenian National Academy of Science					
10:30-11:00	"Bayesian Assessment of Model Uncertainty", Phillipe Geyskens,					
10,50-11.00	University of California at Berkeley, USA					
	Oniversity of Camerina at Bernerey, Con-					
11:15-12:45	Technical Session 5 - Scientific Applications					
11.15-12.45	Chair: Artak Hambarian					
11:15-11:45	"Elaboration of an Intellectual, Universal, Software, Portable					
11.15-11.45	Monitor-Cardioscope", Marat Muradian, Vazgen Melikian,					
	Movses Muradian, Robert Dashtoian, and Emma Gasparian, State					
	Engineering University					
11:45-12:15	"Mass Opinion and the Democratic Process", Marine Kourktchian,					
11,10 12,10	Department of Sociology, Yerevan State University					
12:15-12:45	"The Geometric Structure of Eigenvalue Problems", Mark Kaiser,					
1	American University of Armenia					

SCHEDULE (cont.)

Day 2 (Wednesday, October 11) (cont.)

13:00-14:30 Lunch

14:30-16:30 Round-Table Discussion

Research Needs in Armenia

Moderator: Armen Der Kiureghian, Dean, College of Engineering,

American University of Armenia

Panelists: Mihran Agbabian, President, American University of

Armenia

Jan-E Askeröi, Scientific Officer for Engineering,

Aeronautics and Space, INTAS, Norway

Arest Beglarian, Rector, Institute of Architecture and

Construction

Joao Teixeira de Frietas, Centro de Mecanica e

Engenharia Estruturais, Portugal

Vardges Gnuni, Minister of Science, Republic of

Armenia

Radik Martirossian, Rector, Yerevan State University

Guido de Roeck, Katholieke Universiteit Leuven,

Belguim

Fadey Sarkissian, President, Armenian National

Academy of Science

Yuri Sarkissyan, President, State Engineering

University

Recorders: Artak Hambarian, American University of Armenia

Mark Kaiser, American University of Armenia

18:00-21:00 Closing Dinner

INTAS

In order to promote cooperation with scientists from the newly independent states of the former Soviet Union, INTAS was created as an International Association under Belgian private law. Members of INTAS are the European Community, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, The Netherlands, Norway, Portugal, Spain, Switzerland and the United Kingdom. INTAS concentrates on the promotion of research projects jointly performed between research teams of the CIS and member states of INTAS, as well as pan-European scientific networks. Research in all exact and natural sciences, economic sciences as well as human and social sciences is supported by INTAS.

AMERICAN UNIVERSITY OF ARMENIA

The American University of Armenia was established in 1991 in the aftermath of the devastating 1988 earthquake, and offers the only American-style graduate-level education in the former Soviet Union. The University has graduate programs in Engineering (Earthquake and Industrial), Business and Management, and Political Science; certificate programs in Public Health and Teaching of English as a Second Language are also offered. An Engineering Research Center is administered by the College of Engineering, and a Structural Dynamics Laboratory has recently been established, including a 1.5m x 2m shake table. A Manufacturing Laboratory, equipped with machine tools and CAD/CAM systems is under contract.

ORGANIZING COMMITTEE

The organizing committee consists of the following individuals:

Ashot Hakobian (Chair)
Scott Campbell
Armen Der Kiureghian
Artak Hambarian (Administrator)
Mark Kaiser
Rusk Masih

TRANSPORTATION

Air transportation to Armenia is available on a twice-weekly schedule departing from Amsterdam and a weekly schedule departing from Paris and Athens. Daily flights are available from Moscow. Air service is also available from numerous points in the Middle East and CIS.

LODGING

Lodging should be arranged at Hotel Armenia in Yerevan. For further information contact Hotel Armenia at:

Hotel Armenia 1 Vramshapouh Street Yerevan, Armenia

Phone: (3742) 52.55.83 Fax: (3742) 15.18.02

MONEY

At the present time, Armenia is a cash society. Travelers Checks and credit cards may not be used within Armenia. Additionally, it may be difficult to change currency other than US dollars. It is suggested that participants bring US dollars in small denominations.