

**First Day, Wednesday, April 15, 2015**

**08:00 – 09:30 Registration**

**09:30 – 10:00** Opening Ceremonies  
 Welcome

**CHAIR Andrei Metrikine**

**10:00–11:00** Erkan Çelebi  
 Reduction of Building Vibrations Nearby Railway Due to Turkish High-Speed Train Passage  
 10:00–10:20

Fatih Göktepe  
 Experimental Investigation of Surrounding Ground Vibrations During the Passage of Turkish High-Speed Train  
 10:20–10:40

Manuela Hackenberg  
 Modelling of Moving Loads Tunnel-Structures  
 10:40–11:00

**11:00 – 11:20 Coffee Break**

**CHAIR Graham Rogerson**

**11:20–12:20** Karel N. van Dalen  
 Transition Radiation Excited by a Load Moving over the Interface of Two Elastic Waveguides  
 11:20–11:40

Danila A. Prikazchikov  
 On the Moving Load on Edge of A Semi-Infinite Elastic Plate Supported by a Winkler Foundation  
 11:40–12:00

Onur Şahin  
 An Investigation of the Asymptotic Solution of the 3D Moving Load Problem for a Coated Half Space  
 12:00–12:20

**12:30 – 14:00 Lunch Break**

**CHAIR****Yury Petrov****14:00—15:00**

Feodor M. Borodich

Modelling of Frictional Motion of an Elastic Slider Along a Nominally Flat Rough Surface

14:00–14:20

Graham A. Rogerson

Energy Flux in Constrained and Nearly Constrained Elastic Solids

14:20–14:40

Marina V. Rylnikova

Harvesting of Electrical Power by Using the Energy of Moving Masses During the Mining Operations

14:40–15:00

**15:00—15:20****Coffee Break****CHAIR****Erkan Çelebi****15:20—16:20**

Vladimir Bratov

Modelling the High-Speed Train Induced Dynamic Response of Railway Embankment

15:20–15:40

Ján Kortis

The Concrete Bridge Structure Subjected to Moving Loads

15:40–16:00

Anatolij Nikonov

A Long- Wave Model For The Surface Viscoelastic Waves in Pavements

16:00–16:20

**Second Day, Thursday, April 16, 2015**

**CHAIR                      Feodor Borodich**

**10:00–11:00**

Yuri Petrov  
Dynamic Fracture as a Problem with Changing Boundary  
10:00–10:20

Roman Chebakov  
A Moving Load on a Non-Locally Elastic Half-Space  
10:20–10:40

İlkem Turhan  
Crack Interactions in an Orthotropic Strip  
10:40–11:00

**11:00–11:20              Coffee Break**

**CHAIR                      Fatih Göktepe**

**11:20–12:20**

Yan-Mei Cao  
Influence of Velocity of Surface Moving Axle-Loads on Ground Vibrations and Phenomena of Mach Cone  
11:20–11:40

Arian Masoumi  
Vibration Reduction of A Beam Subjected to Axial Compressive Force and Moving Load  
11:40–12:00

Farhad S. Samani  
Vibration Reduction of the Bridge Crane Structure by Means of the Linear and Nonlinear Vibration Absorbers  
12:00–12:20

**12:30 – 14:00            Lunch Break**

**CHAIR                      Karel van Dalen**

**14:00–15:00**

Ludmila A. Alexeyeva  
Boundary Value Problems of Elastrodynamics at Action of Subsonic Transport Loads and Their Generalised Solutions  
14:00–14:20

Aleksei P. Kiselev  
Resonance-Type Phenomena in Nonstationary Wavefields of Point Sources in Isotropic, Elastic Media  
14:20–14:40

Gulmira K. Zakiryanova  
Dynamics of Two-Component Medium M. Biot For Subsonic Transport Load  
14:40–15:00

**15:00–15:20****Coffee Break****CHAIR****Aleksey Kiselev****15:20—16:20**

Jeremiah Rushchitsky

Three Basic Nonlinear Effects in Propagation on Rayleigh, Stoneley, Love  
Surface Waves

15:20–15:40

Tau Lu

Vibrations of a Flexibly Supported Ring in Relative Motion with a Radial Load

15:40–16:00

A.N. Tyurehodzhayev

Propagation of Nonlinear Elastic Subharmonic Waves

16:00–16:20

**Third Day, Friday, April 17, 2015**

**CHAIR Yan-Mei Cao**

**10:00–11:00**

Nihal Ege

An Asymptotic Approach for the Rayleigh Wave Field on an Elastic-Half Space Subject to Tangential Surface Loading

10:00–10:20

Leonid I. Manevitch

A Concept of Limiting Phase Trajectories and Description of Resonance Non-Stationary Process in Nonlinear Oscillatory Systems

10:20–10:40

Hacer Bozdağ

An Asymptotic Model for the Stoneley Wave

10:40–11:00

**11:00–11:20 Coffee Break**

**CHAIR Julius Kaplunov**

**11:20–12:20**

Discussion of the Problems Presented in the Colloquium

Closing

**12:30–13:30 Lunch Break**

EXCURSION IN ESKİŞEHİR