

III Annual Meeting of the Georgian Mechanical Union

Dedicated to 110th Birthday Anniversary of V. Kupradze

Second Announcement

III Annual Meeting of the Georgian Mechanical Union will be held in Tbilisi at I. Vekua Institute of Applied Mathematics of I. Javakhishvili Tbilisi State University (TSU) on December 19-21, 2012.

Organizers:

Georgian Mechanical Union
Faculty of Exact and Natural Sciences of I. Javakhishvili Tbilisi State University
I. Vekua Institute of Applied Mathematics of I. Javakhishvili Tbilisi State University
Tbilisi International Center of Mathematics and Informatics

International Scientific Committee:

Aptsiauri, Amirani (Kutaisi National University, Georgia)

Botchorishvili, Ramaz (I. Javakhishvili Tbilisi State University, Department of Mathematics)

Bantsuri, Revaz (A. Razmadze Mathematical Institute of I. Javakhishvili Tbilisi State University, Georgia)

Chinchaladze, Natalia (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics, Georgia)

Danelia, Demuri (Georgian Technical University, Georgia)

Gabrighidze, Gurami (K. Zavriv Center of Structural Mechanics Earthquake Engineering and Engineering Expertise, Georgia)

Gedenidze, Zurabi (Georgian Technical University, Georgia)

Gilbert, Robert (University of Delaware, USA)

Gordeziani, David (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics, Georgia)

Gulua, Bakuri, Scientific Secretary (I. Javakhishvili Tbilisi State University & Sukhumi State University, Georgia)

Guran, Ardeshir (Institute of Structronics, Canada)

Hakobyan, Vahram (Institute of Mechanics NAS RA, Yerevan, Armenia)

Jaiani, George, Chairman (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics, Georgia)

Kaplunov, Julius (Brunel University of London, UK)

Kipiani, Gela (Georgian Technical University, Georgia)

Kröner, Dietmar (Albert-Ludwigs-Universität Freiburg, Germany)

Kvitsiani, Tarieli (Georgian Technical University, Georgia)

Natroskhvili, David (Georgian Technical University & I. Vekua Institute of Applied Mathematics of I. Javakhishvili Tbilisi State University, Georgia)

Pataraidze, David (G. Tsulukidze Mining Institute, Georgia)

Sharikadze, Jondo (I. Vekua Institute of Applied Mathematics of I. Javakhishvili Tbilisi State University, Georgia)

Skhirtladze, Nugzari (Caucasus University, Georgia)

Vashakmadze, Tamazi (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics, Georgia)

Organizing Committee:

Avazashvili, Nikoloz (I. Vekua Institute of Applied Mathematics of I. Javakhishvili Tbilisi State University)

Chinchaladze, Natalia, Chairwoman (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics)

Didmanidze, Ibrahim (Shota Rustaveli State University, Batumi)

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Gorgidze, David (Georgian Technical University)

Gulua, Bakuri, Cochairman (I. Javakhishvili Tbilisi State University; Sukhumi State University)

Kipiani, Gela (Georgian technical University)

Nozadze, George (G. Tsulukidze Mining Institute)

Rukhaia, Khimuri (I. Javakhishvili Tbilisi State University & Sukhumi State University)

Qajaia, Lali, Scientific Secretary (Georgian Technical University)

Sharikadze, Meri (I. Javakhishvili Tbilisi State University)

Tskirikidze, Vardeni (Georgian Technical University)

Tvalchrelidze, Avtandili (Kutaisi State University)

Topics of the Meeting

1. Mechanics of Deformable Solids;
2. Mechanics of Fluids;
3. Solid-Fluid Interaction Problems;
4. Related Problems of Analysis.

Survey talks (35 minutes) and communications on concrete results (20 minutes) will be presented.

Participants should send titles and abstracts of talks to Lali Qajaia until November 25, 2012 (e-mail: qajaia@gmail.com). Abstract of the presentation should be submitted in Georgian and English languages, in accordance with the attached templates and should not exceed two A5 format pages in each language (Please do not change fonts, paper sheets and fields sizes stated in the template). We plan to publish abstract book before the meeting. Selected papers will be published in the journals: Bulletin of TICMI (<http://www.viam.science.tsu.ge/others/ticmi/blt/bulletin.htm>, <http://www.emis.de/journals/ticmi/blt/bulletin.htm>) and Applied Mathematics, Informatics, and Mechanics (<http://www.viam.science.tsu.ge/Ami/Main.htm>).

Prospective talks

Chargazia, Khatuna; Aburjania, George (I. Vekua Institute of Applied Mathematics of I. Javakhishvili Tbilisi State University, Georgia). Evolution of ULF electromagnetic wave structures in the shear flow driven ionosphere

Chinchaladze, Natalia (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics, Georgia). On some harmonic vibration problems of cusped plates in the N-th approximation of Vekua's hierarchical models

Davitashvili, Temuri (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics, Georgia), *Gubelidze Givi*. Leak detection in pipelines for gas stationary and non-stationary flow

Gordeziani, David (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics, Georgia). Additively-Averaged Models and Schemes for Solution of Some Problems of Thermoelasticity

Jaiani, George (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics, Georgia). Construction of differential hierarchical models for elastic prismatic shells with microtemperatures.

Kalamkarov, A. (Dalhousie University, Canada). Micromechanical analysis of smart composite materials and structures based on the Asymptotic Homogenization

Kröner, Dietmar (Albert-Ludwigs-Universität Freiburg, Germany). Dynamics of surfaces in different applications

Natroshevili, David (Georgian Technical University & I. Vekua Institute of Applied Mathematics of I. Javakhishvili Tbilisi State University, Georgia). Heritage of V.Kupradze in 3D elasticity: potential method and fundamental solutions method

Svanadze, Kosta (Akaki Tsereteli Kutaisi State University, Georgia). Solution of the basic plane boundary value problems of statics of the elastic mixture for a multiply connected domain by the method of D.Sherman

Vashakmadze, Tamazi (I. Javakhishvili Tbilisi State University, Department of Mathematics & I. Vekua Institute of Applied Mathematics, Georgia). Some mathematical problems of solid mechanics

Zaridze, Revazi; Kakulia, D.; Petoev, I.; Tabatadze, V. (Laboratory of Applied Electrodynamics of I. Javakhishvili Tbilisi State University). The method of auxiliary sources of V. Kupradze and Rayleigh hypothesis

Registration fee 50 GRL (for members of the Georgian Mechanical Union 30 GRL)

Bank accounts of the Georgian Mechanical Union for a money transfer

US DOLLAR

Intermediary Bank: Citibank N.A., New York, USA; **SWIFT:** CITIUS33

Account With Institution: Bank of Georgia, **SWIFT:** BAGAGE22; 3, Pushkin Street, 0105 Tbilisi, Georgia

Beneficiary: "GEORGIAN NATIONAL COMMITTEE OF THEORETICAL AND APPLIED

MECHANICS” UNION

Account: GE26BG000000181896100

US DOLLAR

Intermediary Bank: Citibank N.A., New York, USA; **SWIFT:** CITIUS33

Account With Institution: Bank of Georgia, **SWIFT:** BAGAGE22; 3, Pushkin Street, 0105 Tbilisi, Georgia

Beneficiary: “GEORGIAN NATIONAL COMMITTEE OF THEORETICAL AND APPLIED MECHANICS” UNION

Account: GE96BG000000181896101

EURO

Intermediary Bank: Commerzbank, Frankfurt, Germany; **SWIFT:** COBADEFF

Account With Institution: Bank of Georgia, **SWIFT:** BAGAGE22; 3, Pushkin Street, 0105 Tbilisi, Georgia

Beneficiary: “GEORGIAN NATIONAL COMMITTEE OF THEORETICAL AND APPLIED MECHANICS” UNION

Account: GE26BG000000181896100

Excursion for Participants

Wine Tour in Kakheti: December 20, EURO 50.

We will visit fortified town of Signaghi (18th century). The town preserved its original image and offers visitors stunning views of the surrounding Caucasus Mountains. The tour also includes: wine degustation at “Pheasant Tears” cellar; Tsinandali museum and wine degustation; Take a tour at the “Teliani Valley” wine factory and wine degustation; Chacha (a Georgian grape vodka) and Churchkhela (Georgian sweet with nuts and boiled grape juice with flour) making procedure at the local wine-cellar in Gurjaani; Traditional Georgian dinner.

Meeting web-page: <http://www.viam.science.tsu.ge/others/gnctam/annual3.htm>