

Sunday, July 25, 2010		10:30-17:30 Registration Conference Hall - Cankaya University, Welcome Party, 19:00-21:00 , Cankaya University		
Monday, July 26, 2010				
9:30-10:00	Opening Ceremony	Conference Hall	11.00-17.00 POSTER SESSION Conference Hall	
10:15-11:00	Plenary Lecture 1 Conference Hall	IHSAN BOUSTANI (Germany) <i>Boron: The Challenging Element in Nanotechnology</i> CHAIR: Ziya B. Güvenç		
11:00-11:30	Coffee Break			
11:30-12:15	Plenary Lecture 2 Conference Hall	MİHRİ ÖZKAN (USA) <i>Bulk Heterojunction Solar Cells: Engineering at the Nanoscale</i> CHAIR: Ziya B. Güvenç		
12:15-13:30	Lunch			
13:30-14:15	Plenary Lecture 3 Conference Hall	CENGİZ ÖZKAN (USA) <i>Graphene: A New Material That Can Transform the Electronics and Nanotechnology Landsform</i> CHAIR: Ihsan Boustani		
14:15-15:00	Plenary Lecture 4 Conference Hall	MUSTAFA YAVUZ (Canada) <i>Nanojoining and Fabrication of Nanojunctions Using Nano-particles</i> CHAIR: Ihsan Boustani		
15:00-15:30	Coffee Break			
15:30-16:15	Plenary Lecture 5 Conference Hall	Manuel Ortigueira (Portugal) <i>TBA</i> CHAIR: Mihri Özkan		
16.15-16.45	Coffee Break			
16.45-18.15	Parallel Session 1 Conference Hall	Parallel Session 2 AMFI 1	Parallel Session 3 Blue Hall	Parallel Session 4 AMFI 2
18.30-19.30	Parallel Session 5 Conference Hall	Parallel Session 6 AMFI 1	Parallel Session 7 AMFI 2	
19:30-20:00	Cultural Event Conference Hall			
20:00-21:45	Banquet			

Tuesday, July 27, 2010

9.30--10:10 **Plenary Lecture 6** **ALBERT LUO (USA)**
Conference Hall *On Flow Barriers in Discontinuous Dynamical Systems*
CHAIR: J.A. Tenreiro Machado

10:10-10:30 **Coffee Break**

10:30-11:10 **Plenary Lecture 7** **LEV A. OSTROVSKY (USA)**
Conference Hall *Perturbations Methods for Solitons and Their Behaviour as Particles*
CHAIR: Victor I. Shrira

11:10-11:50 **Plenary Lecture 8** **OM P. AGRAWAL (USA)**
Conference Hall *TBA*
CHAIR: Victor I. Shrira

11:50-12:10 **Coffee Break**

12:10-12: 50 **Plenary Lecture 9** **VICTOR I. SHRIRA (UK)**
Conference Hall *Reconstruction of Paleotsunamis*
CHAIR: Lev A. Ostrovsky

13:00-14:00 **Lunch**

14:00-14:45 **Plenary Lecture 10** **J. A. TENREIRO MACHADO (Portugal)**
Conference Hall *Fractional Calculus Applications*
CHAIR: Dumitru Baleanu

14:45-19:00 **Social Program**

19.00-21.00 **Dinner**

Monday, July 26 , 2010		Parallel Session 1	PLACE- Conference Hall
16:45 - 18:15	Chair	H. IBRAIM DURSUN	
	Mustafa Büyükata , Ziya B. Güvenç	<i>DFT Study of B12Hn (n=1-12) and [B12H12]q (q=-2,-1,0,+1,+2) Clusters</i>	
	Nurten Akman, Murat Taş, Cem Özdoğan, Ziya B. Güvenç ,Ihsan Boustani	<i>Neutral and Multi- Charged Boron Clusters</i>	
	Mehmet Bahat	<i>Structures, Vibrational Spectra, and Electronic Properties of (Cl2O) 2 ≤ n ≤ 5 Clusters</i>	
	Hamit Alyar , Mehmet Bahat	<i>Quantum Chemical Study on the Torsional Energy and Nonlinear Optical Properties of 2-, 3-R-4-Phenylpyridine (R=CH3, NH2 and NO2) Compounds</i>	

Monday, July 26 , 2010		Parallel Session 2	PLACE- AMFI 1
16:45 - 18:15	Chair	MYKOLA KRUPA	
	Gökçe Küçükayan, Verda Bitirim, Can Akçalı, Erman Bengü	<i>Superhydrophobicity of Carbon Nanotube Forests</i>	
	Nahid Malek, Bahare Ghne-Motlagh	<i>Synthesis and Rheological Analysis of Ferro-Fluids</i>	
	Mykola Krupa, A. Korostil	<i>Laser-induced Magneto-resistance Effect in Magnetic Tunnel Junctions with PrO Barrier</i>	

Monday, July 26 , 2010		Parallel Session3	PLACE –Blue Hall
16:45 - 18:15	Chair	DUMITRU BALEANU	
	Abolhassan Razminia, Kambiz Razminia, Alireza Nemati, Gholamreza Bazdar	<i>Adaptive Synchronization in Chaotic Secure Communication Systems Using Chua's Circuit</i>	
	Coşkun Yakar, Mustafa Bayram Gücen	<i>Initial Time Difference Strict Stability Criteria of Fractional Order Differential Equations in Caputo's Sense</i>	
	Dumitru Baleanu, Sergiu Vacaru	<i>Fractional exact solutions and solitons in gravity</i>	
	Abdelouahab Kadem,Dumitru Baleanu	<i>F_N approximation to fractional neutron transport equation in slab geometry</i>	

Monday, July 26 , 2010		Parallel Session 4	PLACE- AMFI 2
16:45 - 18:15	Chair	DAVID CIRKL	
	Çoşkun Yakar, Mustafa Bayram Gücen, Muhamed Çiçek	<i>Strict Stability Criteria Of Fracional Order Differential Equations In Caputo's Sense In Terms Of Two Measures With Initial Tim Difference</i>	
	A.R. Shooshtari, S. Razavi	<i>Nonlinear free and forced vibration of laminated plated and fiber metal laminates</i>	
	David Cirkl	<i>Modelling Of Damping Force Of Polyurethane Foam İn Dependence On İtsTemperature</i>	
	Renat Shibatov	<i>Fractional Relaxation And Wave Equations For Dielectrics Characterized By The Havriliak-Negami Response Function</i>	

Monday, July 26 , 2010		Parallel Session 5	PLACE – Conference Hall
18:30 - 19:30	Chair	NURTEN AKMAN	
	Sezgin Aydın ,Mehmet Şimşek	<i>The Mechanical Properties Of Cax6 (X=B And C)</i>	
	Ibrahim H. Dursun	<i>A Simple Analytical EAM Model For Some FCC Metals And Alloy</i>	
	Ibrahim H. Dursun	<i>Simple Analytical EAM Model For Some HCP Metals And Alloy I</i>	
	Can D. Vurdu, Ziya B. Güvenç	<i>Surface Temperature Effects On H(D) -> D(H) + Cu(111) Collision Systems: Molecular Dynamics Study</i>	

Monday, July 26 , 2010		Parallel Session 6	PLACE- AMFI 1
18:30 - 19:30	Chair	RENAT T. SIBATOV	
	Alireza Shahriar, A. Karami	<i>Effect of Adding Nanotubes On Natural Frequencies of a Circular Cylindrical Micro Shell</i>	
	Alireza Shooshtari,S. Mehrang Marani	<i>Non-Linear Vibration Analysis Of An Embedded Single Wall Carbon Nano Tubes Using Homotopy Analysis Method</i>	
	Renat T. Sibatov	<i>Statistical Model of Charge Transport in Colloidal Quantum Dot Array</i>	
	Roza Güneş Bayrak, Melike Gültekin, Göknur Cambaz, Yusuf Ziya Umul	<i>Quantum Mechanical Investigation of Light Scattering By A Graphene Layer</i>	

Monday, July 26 , 2010		Parallel Session 7	PLACE- AMFI 2
18:30 - 19:30	Chair	DUMITRU BALEANU	
	A.Fatemi, A.Fatemi, N.Maleki	<i>Study of Diffusion Coefficient in Sand Piles</i>	
	Nahid Maleki , Bahare Ghne-Motlagh	<i>Synthesis And Rheological Analysis of Ferro-Fluids</i>	
	M. Rafiee, A. Shooshtaria , M. Karimia, A. Hiteha, A. Dejam, A.Delshadia, A.Rabiee	<i>Free Nonlinear Nonclassical Oscillations of Microscale Beams</i>	

11.00-17.00 POSTER SESSION Conference Hall, July 26,2010

Dumitru Baleanu, Fahd Jarad, Thabet Abdeljawad, Tuğba Yilmaz, An Application of the Discrete Fractional Variational Principles

Klaus Schmidt, Fahd Jarad, Dumitru Baleanu, Fractional Exact Feedback Linearization

Cristina-Mihaela Baleanu, Raoul R. Nigmatullin, Saime Sebnem Cetin, Dumitru Baleanu, Suleyman Ozcelik, Interband Transition in $\text{GaAs}_{1-x}\text{P}_x$ ternary alloys treated by a new statistical method

Erdal Dinç, Dumitru Baleanu, Mihaela-Cristina Baleanu, New application of the continuous and discrete wavelet transforms to the spectrophotometric determination of raipril and hydrochlorothiazide in a mixture