



TASSA ANNUAL CONFERENCE

11-13 APRIL, 2008
HARVARD UNIVERSITY, BOSTON, MA



TURKISH AMERICAN
SCIENTISTS AND
SCHOLARS ASSOCIATION

Conference Theme:

Innovation as Driver
for
Social Transformation and Economic Growth

1526 18th Street, NW, Washington, D.C. 20036
www.tassausa.org • info@tassausa.org

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TURKISH AMERICAN SCIENTISTS AND SCHOLARS ASSOCIATION

ANNUAL CONFERENCE
THE JOSEPH B. MARTIN CONFERENCE CENTER
HARVARD Medical School
77 AVENUE LOUIS PASTEUR
BOSTON, MA 02115

APRIL 11 - 13, 2008

“Manevi mirasım akıl ve bilimdir.”
“My legacy is reason and science.”

“Hayatta en hakiki mürşit ilimdir.”
“The real guide in life is science.”

Mustafa Kemal ATATÜRK

Erdal İnönü

We are grateful for
your presence and
support during the
formation of our
organization.

Thank you





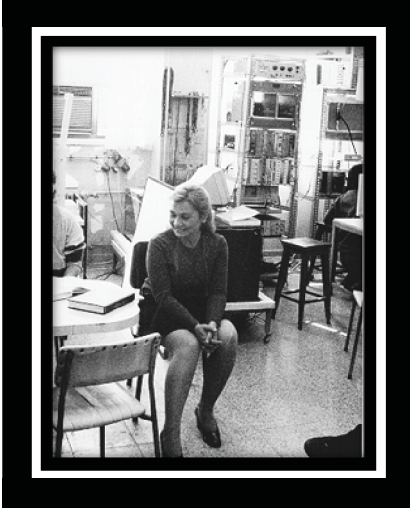
BESTOWS ON
ERDAL İNÖNÜ
HONORARY MEMBERSHIP
IN RECOGNITION OF
DISTINCT CONTRIBUTIONS
TO
EDUCATION, SCIENCE
AND PUBLIC SERVICE
2005



ERDAL İNÖNÜ
YOUR CONTRIBUTIONS TO
SCIENCE AND HUMANITY
AN INSPIRATION TO ALL
WE CELEBRATE YOUR LIFE

In Memoriam

Turkey woke up to very tragic news on November 30, 2007, finding out that an airliner had crashed earlier that morning on its final approach at Isparta Airport. All 57 on board were later confirmed dead. Six valuable members of the Turkish scientific community also perished on that flight: Prof. Engin Arik, Prof. Fatma Senel Boydag, Assoc. Prof. Iskender Hikmet, research assistants Berkol Dogan, Engin Abat and Mustafa Fidan. They were going to attend the Fourth Workshop of the Turkish Accelerator Center Project at Süleyman Demirel University in Isparta, and discuss possible opportunities for building a particle accelerator facility in Turkey.



Prof. Engin Arik was a world renowned nuclear physicist. She was a professor and head of the Experimental High Energy Physics group at the Boğaziçi University in Istanbul, and she was widely recognized as Turkey's face at CERN – the European Organization for Nuclear Research. Arik was born in Istanbul and received her B.Sc. in 1969 in mathematics and physics from Istanbul University, her M.S. and PhD degrees in 1971 and 1976, respectively, both in experimental high energy physics from the University of Pittsburgh. She returned to Turkey in 1979 joining the faculty of Boğaziçi University, becoming a professor at Boğaziçi in 1988. Prof. Arik was asked by the Turkish Ministry of Foreign Affairs to represent Turkey at sessions of Comprehensive Nuclear-Test-Ban Treaty held at the International Atomic Energy Agency between 1997 and 2000. Prof. Arik pioneered the Turkish



involvement in the ATLAS project – a particle physics experiment at CERN searching for new discoveries in the head-on collisions of protons of extraordinarily high energy – much as she did the Turkish involvement in CERN many years earlier. She also championed involvement of Turkish women in science in general and in Physics in particular. Prof. Arik is survived by her husband, Prof. Metin Arik, also a professor of mathematics at Bogazici, and her two daughters. At the initiative of the ATLAS Women's Network, a new fund has been created in her memory, to keep Engin's spirit alive by continuing to bring to CERN young, talented Turkish physicists, as she had pioneered many years earlier. Every year, the Engin Arik Fund will award a fellowship based on academic merit to the most promising Turkish student among the applicants to the CERN Summer Student Program. As one of her colleagues put it: "With her untimely death, the Turkish experimental high-energy physics community has lost one of its most prominent senior members and one of its driving "engin(es)" ."



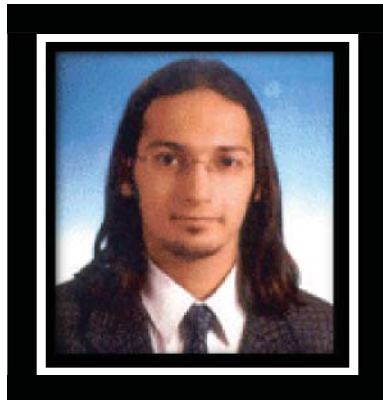
Professor Fatma Şenel Boydağ obtained her B.Sc. in 1969 and Ph.D. in 1976, both from University of Istanbul. She served at the Physics Department of Yildiz Technical University, Istanbul University. She taught at Solar Thermal Power Generation at EURATOM, Italy, and from 1979 to 1980, she served as Researcher in the Joint Research Centre of the Commission of the European Communities, Italy. In 1982 she became an Associate Professor, at Faculty of Sciences at Istanbul, and in 1983-1984 she served as Researcher at Basel University in Switzerland. She became a professor of physics at Yildiz in 1989. She organized many international conferences on physics, served as the chair person of The High Energy and Plasma Physics Group, at Yildiz before joining Dogus University in 2000 as the chair of physics department. Professor Boydağ is survived by her husband Hayrettin Boydağ and her son Emir who recently graduated from the University of Texas at Austin.



Assoc. Prof. İskender Hikmet graduated from Joseph Fourier University in France in 1986, receiving his M.Sc. and Ph. degrees at the laboratory of Physical Spectrometry from the same university in 1988 and 1991, respectively. He worked as a researcher and lectured at the laboratory of Molecular Dynamics of Lille University between 1991-1995. In 1997 he joined the newly found Dogus University in Istanbul and became an associate professor in 1998. He served as a member of the editorial board of Dogus University Journal since its establishment. He is the author or co-author of several international publications in highly reputable journals such as Chemical Physics Letters, Chemical Physics, Journal of Chemical Physics and Journal of Molecular Spectroscopy. He is survived by his wife and three children.



Berkol Dogan



Engin Abat



Mustafa Fidan

Berkol Dogan, born 1980, graduated from Robert College in Istanbul in 1998, and received his B.Sc. and M.S. degrees, both in Physics from Bogazici University. He was since working on his Ph.D. in Physics at the same institution, while working as a research assistant for Prof. Arik in experimental high energy physics.

Engin Abat, born in 1979, received his B.Sc. degree in Physics from Eskisehir Anadolu University in 2005, and he was pursuing his graduate studies at the Bogazici University's department of physics. He was also working with Dr. Arik in experimental high energy physics.

Mustafa Fidan graduated from Macka Technical High School in 1996, and received a B.Sc. degree in Physical Engineering from Hacettepe Univ. in 2001. He has then joined Bogazici University's biomedical engineering program, where he was working on his Ph.D. He was also working as a research assistant at Dogus University. Fidan is survived by his wife, with whom he had just recently married in September 2007.

Compiled by Robi Polikar from several news and web sources, including:

<http://cerncourier.com/cws/article/cern/32925>

http://atlas-service-enews.web.cern.ch/atlas-service-enews/Turk_special/index.html

<http://istanbul.cafebabel.com/en/post/2008/03/01/Engin-Arik-Fund-Will-Keep-Her-Sprit-Alive>

<http://www1.dogus.edu.tr/dogustru/journal/index.htm>

FROM THE CONFERENCE CHAIR AND TASSA PRESIDENT

Dear Participants, Guests, Colleagues, and Friends:

Welcome to TASSA'08! On behalf of the TASSA Conference Committee, we are pleased to host you at the Annual Meeting of TASSA at Harvard University. We are delighted to continue the tradition of TASSA in bringing together a broad range of speakers, panelists, discussants, and moderators to provide our members and meeting participants with an exciting conference. This year's theme is "innovation." As innovation becomes the centerpiece of many countries in the 21st century, we believe TASSA is uniquely poised to help the process of innovation in Turkey by creating organic ties between Turkey and the United States of America. Boston with its rich intellectual environment and its focus on innovation in high-tech industry, financial market, and arts is a fitting place for this exciting theme and for TASSA'08.

We are confident that the scope and quality of the speakers and sessions will be satisfying to our guests. Both Saturday and Sunday morning, we will have keynote presentations followed by panel discussions to provide ample time for participation from the audience. On Saturday, our Honorary Chair, Dr. Kenan Şahin will share with our participants his wealth of experience in innovation with a perspective to link Turkey and the USA. Professor Dani Rodrik will provide a stimulating viewpoint on how innovation plays a role in the advancement of certain countries. Dr. Nukhet Yetis will present her perspective on the science, technology and innovation climate and related funding opportunities in Turkey. On Sunday, we are pleased to have Dean Barry Bloom to present the infinitely complex issues surrounding global health and the role of research universities. Professor Sadik Esener will then bring a unique perspective on how to energize innovation in healthcare by a multidisciplinary approach at the interface of engineering and medicine. Undersecretary for Defense Industry Murad Bayar will provide an overview of innovations underway in the Turkish Defense Industry. These keynote lectures will be followed by panels which will deliberate the social and economic implications of innovation and address relevant management and financing issues. TASSA is privileged to have Professor Gülru Necipoğlu as a featured speaker to end the scientific sessions on Saturday evening. She will lecture about innovation during Fatih Sultan Mehmet's patronage.

This year, we organized a dynamic Forum that brings young Turkish scholars in the USA together with the Presidents of Turkish Universities. This component of the conference aims to create meaningful and long-lasting ties between US and Turkey true to the mission of TASSA. We are delighted to host Professor Arnold Reisman to lead the Forum with a presentation on the vision of Atatürk and the early formative years of the Turkish universities.

The Forum will be followed by two sessions on healthcare and energy. These are two of the most pressing issues relevant to the process of innovation with tremendous importance in Turkey. We are pleased to have Professor Orhun Muratoğlu to share with us his experience in the complexity of innovation in academic medical centers and his invention that has been used to treat over 2 million patients. We are indeed honored to have Jan Nahum who is well known for his pioneering and leadership role in the National Innovation Initiative and will share with us his perspective on energy policies and his industrial experience in energy systems and innovation.

The program is significantly enriched by the hard work of the chairs of four workshops. Mr. Lincoln McCurdy will lead a workshop focused on the importance of innovation in politics. Professor Sema Basol will bring together a group of successful women leaders from various sectors to discuss their experiences. Ms. Çiğdem Acar will discuss the complex issues related to immigration. Professor Sezer Ülkü has put together a stimulating workshop on financing innovation that will host several accomplished speakers from industry, start-ups, venture capital, and academia.

This conference has been possible by the contributions of countless volunteers who worked diligently to bring you a thought provoking and forward thinking program. We wish to go on record with our heartfelt appreciation for their tireless commitment to make TASSA'08 a signature event.

We look forward to welcoming you to Boston and to TASSA'08! We hope that it will provide many opportunities for interaction and dialog that will form the basis of new collaborations and tangible projects between scientists and scholars in Turkey and the United State of America.

Mehmet Toner
TASSA'08 Conference Chair
Mehmet Toner

Banu Onaral
TASSA President, Conference Co-Chair
BANU ONARAL

Friday April 11, 2008

7:00-9:00pm **Welcome Reception**
sponsored by Turkish Coalition of America

Saturday, April 12, 2008

(All sessions are held in the Amphitheater unless specified)

8:00-8:30am *Registration, Continental Breakfast, and Poster Set-up*

8:30-8:45am **CONFERENCE GREETINGS**
Banu Onaral, President, TASSA
Süleyman Gökoğlu, Past-President, TASSA
Erdal İnönü Remembrance
Mehmet Toner, Conference Chair, Harvard Medical School
Kenan Şahin, Conference Honorary Chair, TIAX LLC

8:45-9:15am **CONFERENCE WELCOMING ADDRESS**
Moderator: Erkut Gömülü, Hon. Consul General of Turkey in Boston
Zeynep Kızıltan, Deputy Consul General, New York
The Honorable George J. Hochbreuckner (Former Member of Congress, D-New York)

9:15-11:00am **INNOVATION AS DRIVER FOR SOCIAL TRANSFORMATION AND ECONOMIC GROWTH**
Moderator: Süleyman Gökoğlu, Past-President, TASSA

9:15-9:45am **Honorary Chair Keynote Address**
Linked Innovation across Borders: US and Turkey
Kenan Şahin, CEO, TIAX LLC

9:45-10:15am **Host Institution Keynote Address**
Why Do Some Countries Remain Poor While Others Grow Rich?
Dani Rodrik, Rafiq Hariri Professor of International Political Economy, Harvard University

10:15-10:30am *Coffee Break sponsored by Acar Law Firm PLLC*

10:30-11:00am **Conference Keynote Address**
Recent Science, Technology and Innovation Climate in Turkey
Nüket Yetiş, Acting President, Scientific and Technological Research Council of Turkey (TÜBİTAK)

11:00-11:45pm **TASSA-NATIONAL INNOVATION INITIATIVE (UİG) JOINT PANEL ON INNOVATION**
Moderator: Gökhan Hotamışlıgil, Harvard School of Public Health

Vision of the National Innovation Initiative in Turkey
Jan Nahum, National Innovation Initiative, Turkey, and CEO, Hexagon A.Ş.

Innovation in Turkish Industry
Agah Uğur, National Innovation Initiative, Turkey, and CEO, Borusan

Innovation and Quality Systems
Ali Rıza Kaylan, Boğaziçi University and Quality Society (KALDER)

Role of Civil Society Organizations in Innovation
Cengiz Ersun, General Secretary, İstanbul Chamber of Commerce

Q&A with panel members and speakers

CONFERENCE PROGRAM

- 11:45-2:30pm *Luncheon and Poster Viewing*
Sponsored by Turnalar Tekstil ve Boya Tic. Ltd. Şti.
- 12:30-2:30pm **FORUM: YOUNG TURKISH SCHOLARS MEET THE PRESIDENTS**
Co-Chairs: Hatice Altuğ, Boston University and Utkan Demirci, Harvard Medical School
Moderators: Cemal Ekin, Providence College and Ural Akbulut, President, Middle East Technical University
- 12:30-1:00pm **Plenary Lecture**
Atatürk's 'Üniversite Reformu'
Arnold Reisman, Author of Turkey's Modernization: Refugees from Nazism and Atatürk's Vision
- 1:00-1:45pm **Statements by Young Turkish Scholars**
Moderated by Cemal Ekin, Providence College
Ragıp Akbaş, Stanford University
Alptekin Aksan, University of Minnesota
Hatice Altuğ, Boston University (Co-Chair)
Melis Anahtar, MIT
Utkan Demirci, Harvard-MIT (Co-Chair)
Can Erdoğan, MIT
Hür Köşer, Yale University
Hande Özdinler, Harvard University
Özgür Şahin, Harvard University
- 1:45-2:30pm **Response by Turkish University Presidents and Administrators**
Moderated by Ural Akbulut, President, Middle East Technical University
- All Presidents of Turkish Universities are welcome to join the panel.

PARALLEL SESSIONS

2:30-3:45pm (Bray Room)	TASSA-TURKISH ACADEMY OF SCIENCES (TÜBA) JOINT SYMPOSIUM ON INNOVATION IN HEALTHCARE SOLUTIONS Moderator: Cem Elbi, Merck Research Laboratories, Merck & Co., Inc.	2:30-3:45pm (Amphitheater)	SYMPOSIUM ON INNOVATION IN ENERGY SOLUTIONS Moderator: Bülent Başol, Founding CTO, SoloPower
2:30-3:00pm	Plenary Lecture Innovative Biomaterials Improve Outcomes in Patients with Joint Disease Orhun Muratoğlu, Harvard Medical School	2:30-2:45pm	Policy Lecture Energy Policies in Turkey Jan Nahum, National Innovation Initiative, Turkey, and CEO, Hexagon A.Ş.
3:00-3:15pm	Molecular Targets in Cancer Therapies and “Smart Bombs” Emin Kansu, TÜBA and Hacettepe University Medical School	2:45-3:00pm	Electric Energy Systems: Status and Trends Alex Stankovic, Northeastern University
3:15-3:30pm	Multiplexed Label-free High-throughput Protein Arrays for Diagnosis Selim Ünlü, Boston University	3:00-3:15pm	Concepts in the Design and Testing of Li-ion batteries Mehmet Rona, TIAX LLC
3:30-3:45pm	High-Throughput On-Chip Small-Animal Screening for Genetic/Drug Discoveries Fatih Mehmet Yanık, Massachusetts Institute of Technology	3:15-3:30pm	Importance of Government Support in Energy Innovations Serpil Güran, New Jersey Department of Environmental Protection
		3:30-3:45pm	Innovation in the Field of Photovoltaics Bülent Başol, Founding CTO, SoloPower

3:45-4:15pm *Poster Viewing and Coffee Break*

4:15-5:45pm **WORKSHOPS** (Parallel Sessions)

(Bray Room) TASSA-Turkish Coalition of America (TCA) Joint Workshop on Innovation in Grassroots Politics Chair & Presenter: Lincoln McCurdy	(Room 216) Women’s Leadership Workshop Chair: Sema Başol Panelists: Linda Alepin Nakiye Boyacigiller Shelli Hendricks Funda Şerifoğlu	(Room 217) TASSA-Institute of Turkish Studies (ITS) Joint Workshop on Financing Innovation Chair: Sezer Ülkü Panelists: Feyzi Celik Vedat Eyüboğlu Ahmet Özalp	(Room 214) Immigration Law Workshop Chair & Presenter: Çiğdem Acar
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5:45-6:00pm *Break (Reconvene at the Amphitheater)*

6:00-7:00pm **Featured Conference Speaker**
Western Horizons of Fatih Sultan Mehmet’s Artistic Patronage
Gülru Necipoğlu, Aga Khan Professor, Harvard University
Introduced by Cemal Ekin, Providence College

7:00-10:00pm **STAKEHOLDERS’ FAIR AND CONFERENCE DINNER RECEPTION**
(Conference Center Dining Room)

CONFERENCE PROGRAM

Sunday, April 13, 2008

8:00-8:30am *Registration, Continental Breakfast*

8:30-9:00am **TASSA GENERAL ASSEMBLY MEETING**

9:00-9:30am **AWARDS AND HONORS**

9:30-11:00am **INNOVATION ENTERPRISES**
Moderators: Yaman Yener, Northeastern University

9:30-10:00am **Host Institution Keynote Address**
Agendas and Architecture of Global Health Research
Barry Bloom, Dean, Harvard School of Public Health

10:00-10:30am **Conference Keynote Address**
Fueling Medical Innovation with High-Tech Engineering
Sadik Esener, University of California, San Diego

10:30-11:00am **Conference Keynote Address**
Innovation in Turkish Defense Industry
Murad Bayar, Undersecretary for Defense Industry, Ministry of National Defense, Republic of Turkey

11:00-11:30am *Poster Viewing and Coffee Break*

11:30-12:45pm **TASSA-TURKISH AMERICAN BUSINESS CONNECTION (TABC) JOINT PANEL ON
MANAGING AND FINANCING INNOVATION**
Moderator: Efe Orhun, Co-Founder, Derivative Technology

The Business of Innovation
Oltaç Ünsal, Managing Partner, Smyrna Capital

Innovation in Regional Development: the Mersin Experience
Oya Uysal, Mersin Technology Development Region

Hoshgoru Lecture
Innovation and Tolerance
Halil Kulluk, Chairman of the Board, Intekno, and DEIK

Q&A session with panel members and speakers

12:45-1:00pm **CLOSING REMARKS AND ADJOURNMENT**

Saturday, April 12, 8:30am - 8:45am

Banu Onaral
TASSA President and Conference Co-Chair

Dr. Onaral is H. H. Sun Professor of Biomedical Engineering and Electrical Engineering at Drexel University, Philadelphia, PA. She holds a Ph.D. [1978] in Biomedical Engineering from the University of Pennsylvania and BSEE [1973] and MSEE [1974] in Electrical Engineering from Bogazici University, Istanbul, Turkey. Dr. Onaral joined the faculty of the Department of Electrical and Computer Engineering and the Biomedical Engineering and Science Institute in 1981. She held two sabbatical leaves at Bogazici University in the academic years 1980-81 and 1987-88. Since 1997, she has served as the founding Director of the School of Biomedical Engineering Science and Health Systems.

Her academic focus both in research and teaching is centered on information engineering with special emphasis on complex systems and biomedical signal processing in ultrasound and optics. She has led major research and development projects sponsored by the National Science Foundation (NSF), National Institutes of Health (NIH), Office of Naval Research (ONR), DARPA and Department of Homeland Security (DHS). She supervised a large number of graduate students to degree completion and has an extensive publication record in biomedical signals and systems. She is the recipient of a number of faculty excellence awards including the 1990 Lindback Distinguished Teaching Award of Drexel University, the EDUCOM Best educational Software award and the NSF Faculty Achievement Award.

Dr. Onaral's translational research efforts for rapid commercialization of biomedical technologies developed at Drexel and its partner institutions have resulted in the creation of the Translational Research in Biomedical Technologies program. This initiative brings together academic technology developers with entrepreneurs, regional economic development agencies, local legal, business and investment communities. Under her leadership, the program has been recognized by the Coulter Translational Research Partnership award following a highly competitive selection process among 63 institutions in North America. At the end of the five-year term, universities successful in institutionalizing translational research will receive an endowment to ensure the perpetuity of the program.

Dr. Onaral's professional services include chair and membership on advisory boards and strategic planning bodies of several universities and funding agencies, including service on the National Science Foundation's Engineering Advisory Board, and on the proposal review panels and study sections. She has served on the strategic planning team charged with the creation of Sabanci University in Istanbul, Turkey. She currently serves on the board of trustees of Sabanci University which was established in 1998.

Her professional responsibilities have included service on the Editorial Board of journals and the CRC Biomedical Engineering Handbook as Section Editor for Biomedical Signal Analysis. She served as President of the IEEE Engineering in Medicine and Biology Society (EMBS), the largest member-based biomedical engineering society in the world. She organized and chaired the 1990 Annual International Conference of the EMBS and Co-Chaired the 2004 Annual Conference of the Biomedical Engineering. She is a Fellow of the IEEE Engineering in Medicine and Biology Society, the American Association for the Advancement of Science (AAAS) and a Founding Fellow of American Institute for Medical and Biological Engineering (AIMBE). She served on the inaugural Board of the AIMBE as publications chair and as Chair of the Academic Council. She currently serves as the President of the Turkish American Scientists and Scholars Association.

CONFERENCE GREETINGS

Saturday, April 12, 8:30am - 8:45am

Mehmet Toner
TASSA'08 Conference Chair

Dr Mehmet Toner is a Professor of Biomedical Engineering at the Harvard Medical School and Massachusetts General Hospital (MGH) and a Professor of Health Sciences and Technology at Harvard University-Massachusetts Institute of Technology (MIT), Division of Health Sciences and Technology. Dr Toner received a Bachelor of Science degree from Istanbul Technical University and a MS degree from the Massachusetts Institute of Technology (MIT), both in Mechanical Engineering. Subsequently he completed his PhD degree in Medical Engineering at Harvard-MIT Division of Health Sciences and Technology in 1989. Dr. Toner is a member of the senior scientific staff at the Shriners Hospital for Children, Boston. He is a co-founder of the Center for Engineering in Medicine at MGH and serves as its Co-Director. Dr. Toner is also the founding Director of the BioMicroElectroMechanical Systems (BioMEMS) Resource Center at the MGH. He is also the Director of the Biomedical Engineering Research and Education Program for physicians at Harvard Teaching Hospitals. Dr. Toner served as a Visiting Professor at Rutgers University and at the University of Colorado. He serves as a member of the Board of Trustees of the newly formed Özyegin University. Dr. Toner has served on many national and international panels and review boards, including National Institutes of Health (NIH), National Science Foundation (NSF), and Defense Advanced Research Projects Agency (DARPA). In 1994, he was recognized by the Y. C. Fung Faculty Award in Bioengineering. In 1995, he received the Whitaker Foundation Special Opportunity Award. In 1997, he won the John F and Virginia B Taplin Faculty Fellow Award given by Harvard and MIT. In 1998, Dr Toner was selected to become a Fellow of the American Institute of Medical and Biological Engineering. In 2007, he became a Fellow of the American Society of Mechanical Engineers. Dr. Toner serves on the Scientific Advisory Board of multiple biotechnology and medical device companies as well as a founder of multiple start-up companies including Gamete Technology developing innovative technologies to fertility preservation, Artemis Health focused on the development of microtechnologies for prenatal diagnosis, and CellPoint Diagnostic developing noninvasive solutions for monitoring and early detection of cancer. Dr Toner's research interests are multi-disciplinary and include tissue engineering and preservation, and nano/micro technologies and their applications in clinical medicine and systems biology. Dr. Toner has received funding from NIH, NSF, DARPA, Whitaker Foundation, National Textile Center, and multiple industrial outfits and foundations. He has published over 200 scientific publications and has delivered over 350 keynote and scientific meeting presentations.

Süleyman Gökoğlu
TASSA Past-President

Süleyman Gökoğlu is a Senior Scientist at NASA Glenn Research Center (GRC) in Cleveland, Ohio. After his double-major in Chemical Eng. and Math at Bogazici University in 1978, he received his MS and Ph.D. degrees in Chemical Eng. at Yale University in 1980 and 1982, respectively, and joined NASA GRC right after. His field of expertise is heat and mass transport phenomena in chemically reacting flow systems, advanced materials synthesis and coatings, combustion, and turbo-machinery. He had been the Project Scientist of the space-flight project Mist, related to fire suppression, which flew in 2003 on the ill-fated Columbia shuttle mission, STS-107. He recently received the astronauts' prestigious Silver Snoopy Award at NASA and the Outstanding Achievement in Arts and Sciences Award from the Assembly of Turkish American Associations (ATAA). He authored 26 archival journal articles (2 invited reviews), 2 book chapters, 62 conference proceedings (6 as invited keynote speaker), 35 NASA Technical Reports and was an editor of 1 book.

Dr. Gökoğlu is a Founder and was the first President of the Bogazici University and Robert College International Alumni Association (BURCIN) in the U.S.. He is a Trustee of the Bogazici University Foundation (BUVAK). He served the Turkish American Society of Northeastern Ohio (TASNO) for many years, most recently as its President. He was the Vice-President for the Mid-Central Region of ATAA in 2004. He has served TASSA as its inaugural President until the end of 2007 and is currently a Board member.

Saturday, April 12, 8:45am - 9:15am

H.E. Nabi Şensoy
Ambassador of the Republic of Turkey to The United States

Nabi Şensoy became the Turkish Ambassador to the United States on Jan. 10, 2006. Ambassador Sensoy previously served as deputy undersecretary of general political affairs at the Ministry of Foreign Affairs (2002-05), ambassador to Russia (1998-2002), deputy undersecretary of political affairs for the European Union (1997-98), director-general of the Department of Policy Planning at the Foreign Affairs Ministry (1995-97), and ambassador to Spain (1990-95).

He was also chief of staff to the president (1988-90), consul general in London (1985-88), advisor to the prime minister (1983-85), as well as counselor at the Turkish embassies in Washington, D.C. (1980-83) and in Cuba (1979-80). Before that, he served as head of section at the Department of Bilateral Political Affairs for Western Europe (1977-79), first secretary at the Turkish Embassy in Venezuela (1975-77), vice consul at the Turkish Consulate General in New York (1972-75), and third secretary and second secretary at the Department of Research in the Foreign Affairs Ministry (1970-72).

Ambassador Sensoy is a graduate of the Faculty of Political Sciences at the University of Ankara.

MESSAGE OF H.E. NABI ŞENSOY
AMBASSADOR OF THE REPUBLIC OF TURKEY
FOR THE TASSA 4TH ANNUAL CONFERENCE

Dear Members of the Turkish-American Scientists and Scholars Association,

I would like to congratulate the TASSA leadership and members for the organization of the TASSA Annual Conference, the fourth of which is taking place this year.

I am most pleased to see that TASSA has become a showcase for the positive contribution of Turkish-American scientists and scholars to the academic and scientific life both in the US, Turkey and on global scale.

This year's topic "Innovation as Driver for Social Transformation and Economic Growth" is a well selected one as transformation and development have gained even more importance in this era of globalization.

Scientists and scholars are certainly among the most important group of people who make vital contributions to the further progress of human civilization. In this context, Turkish-American scientists and scholars are widely appreciated for their expertise and talent.

Turkey and the United States are two strategic partners sharing the same values, ideals and vision. Further enhancement of this strategic partnership is a duty for us all. Cooperation in science and technology is an essential part of this deep relationship which has further the potential to offer more. In this context, TASSA constitutes a valuable bridge between scientific and scholarly communities in Turkey and the United States.

I applaud the convening of the Fourth TASSA Conference and wish the participants a successful meeting.

HONORARY CHAIR KEYNOTE ADDRESS

Saturday, April 12, 9:15am - 9:45am

Honorary Chair Keynote Address
Linked Innovation across Borders: US and Turkey
Kenan Şahin

Dr. Şahin is the founder and President of TIAX LLC, a leading technology development company that transforms emerging innovations into robust technology platforms for hand-off to industry. TIAX is a laboratory-based company with more than 50 laboratories and 200 engineers and scientists operating in Cambridge, Massachusetts, and Cupertino, California. Under Dr. Şahin's leadership, TIAX focuses on areas of great societal impact, such as clean energy, energy efficiency, health, safety, and security.

Dr. Şahin's role as President of TIAX caps an already prolific career as academic, technologist and entrepreneur. He received his B.S. (1963) and Ph.D. (1968) both from the Massachusetts Institute of Technology (MIT) and then served on the faculties of MIT, Harvard, and the University of Massachusetts Amherst until 1985. During his distinguished academic career, he received several teaching awards and obtained U.S. and international patents.

In 1982, Dr. Şahin founded Kenan Systems with a \$1,000 personal investment and no outside funding. The company went on to become a world leader in telecommunications software, employing nearly 1,000 people and with offices in a dozen countries. Both Kenan Systems and Dr. Sahin received numerous awards, including the Ernst & Young New England Entrepreneur of the Year in 1998.

In early 1999, Kenan Systems was acquired by Lucent Technologies and Dr. Sahin became Vice President of Software Technology at Bell Labs and subsequently President of Lucent's Software Products Group, serving in that position through 2000.

Dr. Şahin was chosen by the World Economic Forum as one of its 40 Technology Pioneers for 2003 and received the New England Business and Technology's first "Circle of Excellence" award in 2004. In 2006, he was given the Golden Door Award by the International Institute of Boston.

He serves on the Executive Committee of the Council on Competitiveness (COC), on the Steering Committee of the COC's Energy Security, Innovation & Sustainability Initiative, and on the on the External Advisory Board of MIT's Energy Initiative.

Dr. Şahin serves or has served on numerous non-profit boards, including those of MIT (where he serves as a life member), the Boston Museum of Science, the Boston Museum of Fine Arts, Boston Symphony, and the American Field Service.

He is married and lives in Boston.

HOST INSTITUTION & CONFERENCE KEYNOTE ADDRESS

Saturday, April 12, 9:45am - 10:15

Host Institution Keynote Address

Why Do Some Countries Remain Poor While Others Grow Rich?

Dani Rodrik

Dani Rodrik is Rafiq Hariri Professor of International Political Economy at the Harvard's John F Kennedy School of Government. He has published widely in the areas of economic development, international economics, and political economy. His most recent book is *One Economics, Many Recipes: Globalization, Institutions, and Economic Growth*. His current research focuses on designing growth strategies for developing economies. In 2007 he was awarded the inaugural Albert O. Hirschman Prize of the Social Sciences Research Council. He is also the recipient of an honorary doctorate from the University of Antwerp and of the Leontief Award for Advancing the Frontiers of Economic Thought. His work has been supported by research grants from the Carnegie Corporation, Ford Foundation, and Rockefeller Foundation.

Saturday, April 12, 10:30am - 11:00am

Conference Keynote Address

Recent Science, Technology and Innovation Climate in Turkey

Nüket Yetiş

Professor Yetiş was born in Eskisehir, Turkey in 1950. She was educated at Bogazici University. She received her MBA in Operations Management at the same university and Ph.D. in Industrial Engineering at the Istanbul Technical University.

She is the former dean of Marmara University Faculty of Engineering (MUFE) (1994-2000) where she established Master and Doctoral Programs of Engineering Management. She led Continuous Quality Improvement activities at MUFE which is the first Turkish public organization that became a finalist at the European Quality Award in 2000. She also led MUFE to be the first applicant and finalist of European Quality Award in higher education.

She was the Director of the Turkish Institute for Industrial Management (2000-2003). She became Acting President of the Scientific and Technological Research Council of Turkey (TÜBİTAK) in 2004.

Her major interests are engineering and technology management, quality management and reengineering, production and resources management. She has several national and international academic publications.

She led several projects for institutions and companies both in public and private sector on continuous quality improvement and reengineering at the Turkish Institute for Industrial Management.

She is a member of several professional societies including Turkish Quality Association (KalDer), EFQM Education Community of Practice, EFQM HealthCare Working Group.

She is married with two daughters.

Saturday, April 12, 11:00am - 11:45am

TASSA-National Innovation Initiative (UİG) Joint Panel on Innovation **Moderator: Gökhan Hotamışlıgil**

Dr. Gökhan S. Hotamışlıgil gained his M.D. from Ankara University and after his clinical fellowship training he completed his Ph.D. degree in Biological Chemistry and Molecular Genetics at Harvard Medical School. He was then appointed as a faculty member at Harvard University where he is currently the J.S. Simmons Professor of Genetics and Metabolism and the Chair of the Department of Genetics and Complex Diseases at Harvard University's School of Public Health. He is also a faculty member of the Massachusetts Institute of Technology (MIT)-Harvard Broad Institute and Harvard Stem Cell Institute. He is a globally recognized leader in his field with many seminal contributions on the genetic and molecular basis of common and complex diseases, particularly obesity, diabetes, and heart disease. Dr. Hotamışlıgil's research crosses the boundaries between disciplines in moving very basic and novel concepts to human disease and therapeutic strategies that are widely pursued in industry. His work has been featured regularly in the world leading and premier scientific journals and has been recognized with awards from the Markey, Pew, and Sandler Foundations, and the American Diabetes Association. Dr. Hotamışlıgil is an elected member of the Turkish Academy of Sciences and the recipient of 2004 TUBITAK Science Award. He is also the recipient of the 2007 Outstanding Scientific Accomplishment Award of the American Diabetes Association. He serves in the advisory or executive committees of several foundations and institutes including Harvard University, dealing with strategic and scientific planning, technology development and conflict of interest policies. He is also the founder of a biotechnology firm in Boston developing innovative solutions for chronic metabolic diseases. Dr. Hotamışlıgil is married with two children, Derin and Leyla.

Vision of the National Innovation Initiative in Turkey **Jan Nahum**

Jan Nahum is currently the CEO of Hexagon, a Turkish consultancy company. In 2005 Mr. Nahum was named CEO and member of the board of Petrol Ofisi, a Turkish fuel distribution company or fuel supplier company company. He serves as board member to Karsan, a Turkish Motor Vehicles and Spare Parts corporation and is president of the board of +90, a fast manufacturing technologies company. His areas of expertise include automotive, industrial design, industrial engineering, strategic planning and management. Prior to joining Petrol Ofisi, Mr. Nahum was president of international development of Fiat Auto S.P.A. from 2002 through 2004. He was CEO of Tofas Turkey, one of the flagship organizations in the Turkish Automotive Industry, from 1998 to 2002 and general manager of the same company since 1994. Before that he served as general manger to Otokar, also a Turkish automotive manufacturer, for 10 years. Mr. Nahum began his career in 1973 with Otosan, a Koc company in partnership with Ford Automotive, as project engineer. He later became head of design and director of the Koc R&D division, where he remained for nearly 10 years.

Mr. Nahum graduated from renowned Robert College in Istanbul in 1971 and received an M.DES.RCA degree in automotive design from the Royal College of Art in London in 1973.

Innovation in Turkish Industry **Agah Uğur**

Agah Ugur was born in 1957 in Istanbul, Turkey. He studied production engineering in the University of Birmingham, UK (BSC degree), qualified as a chartered accountant in England in 1985. Worked in the Birmingham, London and Jersey offices of "Touch Ross & Co. Independent Auditors" for five years. Worked in the Istanbul office of "Arthur Andersen" for two years. Worked as the Financial Controller of "Emlak Bankası", then the fifth largest bank in Turkey. Joined "Borusan Group" (Group turnover \$3.0 billion / employees 5.000) in 1989 as the Chief Financial Officer. Appointed Chief Operating Officer and the Managing Director of the Group in 1995 and CEO in 2001.

His professional memberships include: Chairman of the Industry Working Group of TUSIAD (Turkish Industrialist and Businessmen's Association), member of the Board of World Wild Life Foundation Turkey (WWF Turkey / DHKV) and Turkish Information Technology Trust (TBV), member of the Executive Committee of TUSIAD_Sabancı University's National Innovation Initiative (UIG), member of Harvard Kennedy School of Government Dean's Advisory Council, Member of the Institute of Chartered Accountants, England and Wales, former member of the Board of TUSIAD, Turkish Quality Association (KALDER), Turkish Corporate Governance Association (TKYD), Turkish Private Sector Volunteers Association (OSGD) and Young Professionals & Businessmen of Turkey (GYIAD).

Agah Ugur is married and has two young children.

Innovation and Quality Systems **Ali Riza Kaylan**

Ali R. Kaylan is a professor of Industrial Engineering and the Chair of the Engineering and Technology Management graduate program at Boğaziçi University in Istanbul. He is also serving as the Chairman of the National Quality Award Steering Committee and a member of the Executive Board of KalDer, the Turkish Quality Society. He is a member of the Steering Committee of the Turkish Engineering Deans Council. He served as the General Secretary of the Deans Council for the period December 2003 – May 2006. He was the Engineering Dean for two terms (2000-2006) at Boğaziçi University. After graduating from Robert Academy in 1969, he has completed his undergraduate studies in 1973 in the Mechanical Engineering Department of Boğaziçi University. He pursued his graduate studies in the Department of Industrial Engineering and Operations Research at Syracuse University in the U.S.A. He has received his M.S. degree in 1975 and Ph.D. in 1979 both from the same University. He joined the Industrial Engineering Department of Boğaziçi University in 1979. He was promoted to associate professorship in 1984 and full professorship in 1990. He has served as the Engineering Dean, Industrial Engineering Department Chair and the Director of the University Computer Center.

His current research interests are in the areas of quality engineering, system simulation and stochastic processes. He is a member of several international and national professional societies. He has also served as the President of Turkish Computer Simulation Research Foundation and the Associate Chair of the European Simulation Council.

Role of Civil Society Organizations in Innovation **Cengiz Ersun**

Mr. Ersun has been involved with İstanbul Chamber of Commerce (ICOC) since 1973, where he also served as the Foreign Trade Department Director, Foreign Trade, International Relations, Study & Research Departments Director and as the Deputy Secretary General before was appointed as the Secretary General in 2003. He is an expert in international market research, countries including South Korea, Russia, USA, Australia, Ukraine and many others. Mr. Ersun serves as the National Coordinator of Med - Partenariat, Supervisor Coordinator of ASCAME, National Project Coordinator of UNIDO, ICOC Representative of ETPO and ICOC Representative of EUROMED. Mr. Ersun also teaches "International Trade & Marketing" at the Yeditepe University in İstanbul, Turkey. Mr. Ersun holds Bachelors, Masters and PhD degrees in Economics from İstanbul University.

He has numerous publications. He has worked as a consultant on Iran Market Research for Saudi Government on UNCTAD / ITC Project and Consultant Roster of International Trade Centre UNCTAD/WTO and Report on the Project "Five Year Strategic Plan for the Restructuring of the Sharjah Chamber of Commerce and Industry" on behalf of ITC.

FORUM: YOUNG TURKISH SCHOLARS MEET THE PRESIDENTS

Saturday, April 12, 12:30pm - 2:30pm

Forum: Young Turkish Scholars Meet the Presidents

Co-Chair: Hatice Altuğ

Hatice Altug received her B.S. degree in Physics from Bilkent University, Turkey in 2000. She received her M.S. degree in Electrical Engineering, and Ph.D. in Applied Physics in 2007 all from Stanford University. During her PhD, she is awarded Intel and IEEE Laser and Electro-Optic Society Fellowships. In 2007, Dr. Altug joined as an Assistant Professor to Boston University Electrical and Computer Engineering Department. She has recently received Boston University Peter Paul Career Development Professorship and Photonics Center Technology Development Award. Her research involves design and implementation of high performance on-chip nanophotonic devices for bio-sensing and communication applications. Her work on ultrafast photonic crystal nanocavity work has been featured on the cover of Nature Physics, and highlighted in Nature Photonics and Laser Focus World magazines. Her work on nanocavity lasers received Best Paper and Research Excellence award in IEEE Laser and Electro-Optic Society Conference in 2005. She received the first place award in the Inventors' Challenge competition of Silicon Valley with her work on micron scale all-optical switches. Her work on slow light and nano-cavity lasers has been featured on the cover of Applied Physics Letters and highlighted in several magazines.

Co-Chair: Utkan Demirci

Utkan Demirci, Ph.D., received his B.S. degree in Electrical Engineering in 1999 as a James B. Angell Scholar (Summa Cum Laude) from University of Michigan, Ann Arbor. He received his M.S. degree in 2001 in Electrical Engineering, M.S. degree in Management Science and Engineering in 2005 and Ph.D. in Electrical Engineering in 2005 all from Stanford University. Dr. Demirci worked at Massachusetts General Hospital, Harvard Medical School as a research fellow for his postdoctoral training. In 2008, Dr Demirci was given Department of Medicine, Harvard Medical School-Young Investigator Award. In 2007, Dr. Demirci was received the Coulter Foundation Early Career Award in Biotechnology; Nano-Biotechnology Award of Honor by The National Science Council of Turkey and The Turkish Industrialists' and Businessmen's Association; CIMIT Award; and, MIT Desphande Center Award. In 2006, he was selected to TR-35 as one of the world's top 35 young innovators under the age of 35 by the MIT Technology Review. He is one of the few recipients of the prestigious Full Presidential Fellowship given by the Turkish Ministry of Education. He won the Stanford University Entrepreneur's Challenge Competition in 2004 and Global Start-up Competition in Singapore in 2004. He is a member of Phi Kappa Phi National Honor Society. He is a recipient of the 2002 Outstanding Paper Award of the IEEE Ultrasonics, Ferroelectrics and Frequency Control Society. Dr Demirci has more than 20 journal publications. He holds PI and Co-PI roles on three NIH awards. His research interests involve biological applications of Microelectromechanical Systems (MEMS) and acoustics, especially: microfluidics for low cost CD4 counts for HIV in resource-limited-settings for global health problems; acoustic picoliter cell-by-cell 3D tissue printing, biopreservation. He created and currently teaches HST 939, "Designing and Sustaining Technology Innovation for Global Health Practice." He is currently the director of Bio-Acoustic-MEMS Labs and among the faculty at Harvard-MIT Health Sciences and Technology, Brigham and Women's Hospital, Harvard Medical School.

FORUM: YOUNG TURKISH SCHOLARS MEET THE PRESIDENTS

Saturday, April 12, 12:30pm - 1:00pm

Plenary Lecture
Atatürk's 'Üniversite Reformu'
Arnold Reisman

Arnold Reisman, Ph.D., is a registered Professional Engineer in California, Wisconsin, and Ohio, and has published over 200 papers in refereed professional journals, along with 14 books. In 1994 Reisman chose early retirement from a teaching career at Case Western Reserve University. During 1999-2003, he served as Visiting Scholar in Turkey at both Sabanci University and the Istanbul Technical University. His most recent research interests are in technology transfer and in the subject of his latest book *Turkey's Modernization: Refugees from Nazism and Atatürk's Vision*. Reisman is also actively pursuing his lifelong interest in sculpting. He is listed in Who's Who in America, Who's Who in the World, American Men and Women of Science, and Two Thousand Notable Americans, and he is a Fellow of the American Association for the Advancement of Science.

Saturday, April 12, 1:00pm - 1:45pm

Statements by Young Turkish Scholars
Moderator: Cemal Ekin

A. Cemal Ekin is an associate professor of marketing at Providence College, where he has worked for over 30 years. He has been active in TASSA since its founding in 2004, worked in the founding council and later became the first and the last vice president of TASSA. He has served on the bylaws committee where he is still a current member, is a member of the IT Committee, one of the elected auditors. His academic field is marketing and his areas of teaching are marketing research, marketing strategy, and marketing on the Internet and Web design. He has published invited and refereed papers, two books, made presentations in his field. He is an avid photographer with two solo exhibits, in 2004 and 2007.

Panelist: Ragıp Akbaş

Ragıp Akbaş currently works at Autodesk, Inc., where he recently joined as a program manager. He finished his undergraduate and master's degree at Bogazici University Civil Engineering department. Then, he obtained his PhD from Stanford University in 2003 in Civil and Environmental Engineering department with emphasis on computer science and computational methods. In his doctoral dissertation, Ragıp defined a new geometry-based planning technique for construction with potential to significantly alter current planning approaches. After a postdoctoral research period at Stanford University, he has been working in the software industry. He first worked at two start-up companies focusing on implementing his research results to make an impact on the field. He now works at the leading software provider for the AEC industry. Meanwhile, he continues performing research and publishing papers on civil engineering and bioengineering.

Panelist: Alptekin Aksan

Professor Alptekin Aksan received his B.S. and MS. degrees in Mechanical Engineering from Middle East Technical University in Ankara, Turkey. He received his Ph.D. in Mechanical Engineering from Michigan State University in 2002. He has completed his post-doctoral studies in Center for Engineering in Medicine in Massachusetts General Hospital and Harvard Medical School. He has been a faculty member in University of Minnesota since 2005. His research areas are biothermodynamics, bioheat and mass transfer and biostabilization by confinement. He has recently received an NSF CAREER Award and University of Minnesota McKnight Land-Grant Professorship.

FORUM: YOUNG TURKISH SCHOLARS MEET THE PRESIDENTS

Panelist: Melis Anahtar

Melis Anahtar is currently a senior at MIT studying Mechanical and Biomedical Engineering. She was recently named a Rhodes Scholar and was selected as one of twenty college academic All-Stars by USA Today. She was also one of Glamour Magazine's Top 10 College Women (2007), received the MIT Society of Women Engineers Graduating Senior Award (2007), and was a finalist in the Intel Science Talent Search (2004). Melis has conducted research at Massachusetts General Hospital, the National Institute of Standards and Technology, the NIH, and MIT. Her projects have ranged from developing novel analytical tools and finding disease-causing genetic mutations to testing a needle-free injector and designing nanoparticles for cancer imaging. She is the editor-in-chief of the MIT Undergraduate Research Journal, and is a staff blogger on the MIT Admissions website. After receiving a Master's degree in Immunology from Oxford, she plans to attend the Harvard/ MIT MD-PhD program and hopes to combine her interests in medicine, bioengineering, and health policy in an academic setting.

Panelist: Can Erdönmez

Can Erdönmez is a Postdoctoral Fellow at Massachusetts Institute of Technology in the Department of Materials Science and Engineering. His current research area is materials processing and design for energy storage systems, particularly rechargeable lithium batteries. He received his B.A. in Cornell University in Chemistry. Subsequently, he received his M.S. and Ph.D. in Materials Science and Engineering from U.C. Berkeley. His doctoral research focused on methods of chemical synthesis and modification of metallic and ceramic nanostructures; in the meantime, he was able to contribute to several high-impact academic investigations in this area. He has been at MIT for the last year, adapting to his new field.

Panelist: Hür Köşer

Dr. Köşer obtained double B.S. degrees in Electrical Engineering and Physics from the Massachusetts Institute of Technology (MIT), a Master's of Engineering degree for his work on magnetic random access memory devices at IBM T. J. Watson Research Laboratory. He stayed at MIT's Electrical Engineering Department to get a Ph.D. in the field of Microsystems (2002). After a post doctoral work in microfluidics at the Research Laboratory of Electronics at MIT, he joined the Electrical Engineering Department at Yale University as an Assistant Professor in 2003, where he currently conducts research in micro and nanotechnology applications to biomedical engineering and power devices. Dr. Köşer has recently received the NSF Career Award for his work on ferrofluid dynamics and has won a prestigious Junior Faculty Fellowship (awarded by Yale University) to expand his work on ferrofluids. He is also the recipient of the 2003 Yale Information Technology Systems (ITS) Instructional Innovation Award and the Moore Award for the development of a microfluidics-based teaching laboratory.

Panelist: Hande Özdinler

P. Hande Özdinler graduated from Molecular Biology and Genetics Department of Boğaziçi University and completed her Master's degree at the same Institution on Biotechnology. She earned her PhD at New Orleans Louisiana State University Health Sciences Center on Cell Biology, Anatomy and Neuroscience. She then moved to Harvard Medical School for post-doctoral studies and is now an Instructor at Harvard Medical School. Dr. Özdinler contributed to our understanding of motor neuron biology and neurodegenerative diseases. Her investigations and findings have been awarded and granted by various institutions and she has been the recipient of numerous awards, including awards from Harvard.

Panelist: Özgür Şahin

Dr. Ozgur Sahin received B.Sc. degree in electrical engineering from Bilkent University, Ankara, Turkey in 2001 and M.Sc. and the Ph.D. degree in Electrical Engineering from Stanford University, CA. He is currently working at Nanomechanical Sensing Group at Harvard University, Cambridge. His research interests include developing tools for sensing physical and biological phenomena on the nanoscale. His group developed AFM tips designed to measure time-varying nanomechanical forces. His work is published in a number of top-notch scientific journals including Nature Nanotechnology, Physical Review B, among others.

FORUM: YOUNG TURKISH SCHOLARS MEET THE PRESIDENTS

Saturday, April 12, 1:45pm - 2:30pm

Response by Turkish University Presidents and Administrators

Moderator: Ural Akbulut

Moderator: Ural Akbulut Prof. Dr. Ural Akbulut was born in Erzincan in 1945. He received his B.Sc. from Middle East Technical University, Chemistry Department in 1969 and his M.Sc. from the same department a year later, in 1970. His Ph.D. degree was earned at University of South Florida, Department of Chemistry in 1973.

Professor Akbulut became an associate professor at the Chemistry Department, METU in 1979 and it was in the Faculty of Science, Ankara University in 1985 that he earned the title of professor.

Professor Akbulut, who has a large number of international scientific papers, has served as the Vice Department Head at Chemistry Department, METU between 1982-1985 and as the Vice Dean at Faculty of Science, Ankara University between 1985-1986. Following that, in the year 1986 he became the Dean of Faculty of Pharmacy, Ankara University and in 1986-1987 the Vice Rector of Ankara University. From 1990 to 1992 he was the Secretary General of METU and 1992-2000 was the period that he worked as the Vice Rector at the same university. Professor Akbulut is the Rector of METU since 2000.

Note: All Presidents of Turkish Universities are welcome to join the panel

TASSA-TURKISH ACADEMY OF SCIENCES (TÜBA) JOINT SYMPOSIUM: INNOVATION IN HEALTHCARE SOLUTIONS

Saturday, April 12, 2:30pm - 3:45pm (Parallel Session)

TASSA-Turkish Academy of Sciences (TÜBA) Joint Symposium on Innovation in Healthcare Solutions Moderator: Cem Elbi

Dr. Cem Elbi is Sr. Research Scientist in Department of Cancer Biology and Therapeutics at the Merck Research Laboratories, Boston, Massachusetts. Dr. Elbi's research focuses on identification and study of the mechanism of action of novel targets for oncology drug discovery and development. He was a Research Fellow in the Laboratory of Receptor Biology and Gene Expression (LRBGE) at the National Cancer Institute (NCI), National Institutes of Health (NIH) in 2002-2005. He did postdoctoral research at the LRBGE, NIH, NCI in 1997-2001. Dr. Elbi received his Ph.D. in Molecular and Cell Biology from MIU, Iowa in 1997. He did his medical training at the University of Ege, School of Medicine in Turkey. Dr. Elbi served as Chairperson of the Fellows and Young Investigators Association, Center for Cancer Research, NCI in 2003-2004. He is a member of the American Association for Cancer Research, American Association for the Advancement of Science and The American Society for Cell Biology.

Saturday, April 12, 2:30pm - 3:00pm

Plenary Lecture Innovative Biomaterials Improve Outcomes in Patients with Joint Disease Orhun Muratoglu

Dr. Muratoglu is an Associate Professor at Harvard Medical School and is the Co-Director of the Orthopaedic Biomechanics and Biomaterials Laboratory at the Massachusetts General Hospital. He is also the recipient of the Alan Gerry Scholar of Orthopaedic Surgery at the Massachusetts General Hospital. He received his undergraduate degree from Rensselaer Polytechnic Institute in 1991, and his doctorate from Massachusetts Institute of Technology in the Department of Materials Science and Engineering within the Program in Polymer Science and Technology in 1995. Dr. Muratoglu is an innovator in biomechanics and biomaterials, and his inventions are widely used around the world. He developed an electron-beam based cross-linking technology for artificial hip and knee replacement materials that has very quickly become the gold standard in the field of hip replacement medicine with more than 2 million patients benefiting from his technology to-date. As a result of his innovative contributions to clinical orthopaedic medicine, he also received numerous awards including 2000 Partners in Excellence Award, 2001 Marshall R. Urist Young Investigator Award, 1999 and 2006 'HAP' Paul Award of the International Society for Technology in Arthroplasty. Dr. Muratoglu's research is at the interface of orthopaedic medicine and biomaterials science and engineering. He has published 45 scientific publications and has delivered keynote presentations in many prestigious organizations, universities, and meetings. He also holds 18 issued patents.

TASSA-TURKISH ACADEMY OF SCIENCES (TÜBA) JOINT SYMPOSIUM: INNOVATION IN HEALTHCARE SOLUTIONS

Saturday, April 12, 3:00pm - 3:15pm

Molecular Targets in Cancer Therapies and “Smart Bombs”

Emin Kansu

Dr.Emin Kansu graduated from the Hacettepe University Faculty of Medicine in 1970. He completed internal medicine residency and hematology clinical and research fellowship training at the Thomas Jefferson University in Philadelphia, from 1971 to 1980. After his return to Turkey, Dr.Kansu joined the department of medicine and Institute of Oncology at the Hacettepe University, in Ankara-Turkey. Since then, he has been serving as the chairman of the Department of the Basic Oncology and director of the Hematopoietic Stem Cell Transplantation Unit. Dr.Kansu has been at the Fred Hutchinson Cancer Research Center in Seattle (1999-2001) as a visiting professor and continued his research in stem cell transplantation, late effects of allogeneic transplantation and chronic graft-vs-host disease.

Dr.Kansu received Medicine and Science Merit Awards from the Hacettepe University, Eczacıbaşı Science Foundation, Sedat Simavi Foundation and Turkish Scientific and Technical Research Council . He was elected to the Turkish Academy of Sciences in 1995 ,and has been an active member of ASH, ISH, EHA,EBMT,CIBMTR, ASBMT, ISSCR, ISCT and ACP. He is an active member of the EBMT-Late Effects Working Party and CIBMTR –Late Effects and Acute and Chronic Leukemias Working Parties.

Dr.Kansu is also an editorial board member of the Hematology and International Journal of Hematology. He has been serving as the Secretary General of the ISH-European and African Division. In 2005,he was appointed as an Adjunct Professor of Medicine and Hematology at the Thomas Jefferson University Medical College in Philadelphia.Dr.Kansu published more than 175 scientific articles in the field of hematology , stem cell biology,erythropoietin, hematopoietic stem cell transplantation, leukemias, GCP and ethics in clinical research.

Saturday, April ,12 3:15pm - 3:30pm

Multiplexed Label-Free High-Throughput Protein Arrays for Diagnosis

Selim Ünlü

M. Selim Ünlü is a Professor of Electrical and Computer Engineering, Biomedical Engineering, and Physics at Boston University. He is also serving as the Associate Dean for Research and Graduate Programs as well as the Associate Director of Center for Nanoscience and Nanobiotechnology. Dr. Ünlü received the B.S. degree in electrical engineering from Middle East Technical University, Ankara, Turkey, in 1986, and the M.S.E.E. and Ph.D. in electrical engineering from the University of Illinois, Urbana-Champaign, in 1988 and 1992, respectively. In 1992, he joined the Department of Electrical and Computer Engineering, Boston University, as an assistant professor. He worked as a visiting professor at University of Ulm, Germany in 2000, ETH Zürich, Switzerland in 2006, and Koc University, Istanbul, Turkey in 2007.

Dr. Ünlü's career interests are in the areas of nanophotonics and biophotonics. Currently, he is working on high-resolution solid immersion lens microscopy of semiconductor devices and circuits, as well as biosensor fabrication and development of biological imaging techniques, particularly in high-throughput, label-free microarrays. In 2008, he started Zoıray Technology Inc. for commercialization of label-free immunoassays, and serves as the Chief Technology Officer.

His professional service includes the former chair of the IEEE/LEOS technical subcommittee on photodetectors and imaging and currently, the chair of IEEE/LEOS Nanophotonics and an Associate Editor for IEEE Journal of Quantum Electronics. Dr. Ünlü has been selected as a LEOS Distinguished Lecturer for 2005-2007 and Australian Research Council Nanotechnology Network (ARCNN) Distinguished Lecturer for 2007. He has been elevated to IEEE Fellow rank in 2007 for his contributions to optoelectronic devices.

TASSA-TURKISH ACADEMY OF SCIENCES (TÜBA) JOINT SYMPOSIUM: INNOVATION IN HEALTHCARE SOLUTIONS

Saturday, April 12, 3:30pm - 3:45pm

High-Throughput On-Chip Small-Animal Screening For Genetic/Drug Discoveries Fatih Mehmet Yanik

Dr. Yanik is currently Assistant Professor at the Department of Electrical Engineering at MIT, and member of MIT's Computational and Systems Biology Program. His expertise is in photonics, microfluidics, bioengineering and neurobiology. He earned B.S. and M.S degrees in Electrical Engineering and Physics at MIT, where his thesis work with Rajeev Ram on ultrafast spectroscopy received MIT-Chorafas Award. He briefly worked on Quantum Computing at Xerox Parc and on Molecular Electronics at HP Labs with Stanley Williams. At Stanford University, he received his Ph.D. in Applied Physics in Shanhui Fan's group as an Intel Fellow, and completed a short postdoctoral work in Stanford Bioengineering and Neurosurgery Departments with Steve Quake and Theo Palmer. He invented the all-optical on-chip photon storage, which was selected among the top ten research advances of the year by the Technology Research News Magazine in 2004. His work on nano-photonic devices was awarded the first place in the Innovator's Challenge Competition in Silicon Valley in 2004. He is selected the "The Outstanding Young Person" by Junior Chamber International's Branch and also as "One of world's top 35 innovators under age 35" by Technology Review Magazine. For his studies on neural degeneration/regeneration and high-throughput screening technology development, he recently received NIH Director's New Innovator Award, Alfred Sloan Award in Neuroscience and Packard Fellowship in Science and Engineering. His studies on stopping light, femtosecond laser nano-surgery, neural regeneration and high-throughput microfluidics received press reviews in several news media including The Economist, Nature, Scientific American Mind, New Scientist, Biophotonics International, Laser Focus World, Photonics Spectra, Technology Research News, Genome Technology and several others.

SYMPOSIUM ON INNOVATION IN ENERGY SOLUTIONS

Saturday, April 12, 2:30pm - 3:45pm (Parallel Session)

Symposium on Innovation in Energy Solutions **Moderator: Bülent Başol**

Dr. Basol received his B.S and Ph.D. degrees from Bogazici University and UCLA, respectively, in the field of electronics. After graduation, he led the R&D activities at Monosolar Inc., where he developed a high efficiency thin film CdTe solar cell technology. In 1984, this technology was transferred to British Petroleum and eventually yielded the highest efficiency thin film photovoltaic (PV) modules at that time. In 1985, Basol co-founded International Solar Electric Technology in California where he directed several solar cell development efforts supported by DOE, NASA, DOD, and DOC, and innovated vacuum and non-vacuum based techniques for CIGS and CdTe solar cell fabrication. Among these techniques were novel painting approaches for high efficiency CIGS device fabrication and high power density flexible solar cells for space, a technology that received an innovation award from NASA. In 2000, Basol joined NuTool Inc., a Silicon Valley start-up company, as a Board Member and CTO, where he led the efforts to develop novel electroplating, electrochemical mechanical deposition, electropolishing processes and equipment for IC interconnect applications. In 2004 ASMI acquired NuTool, and Bulent became the CTO of the new company. In 2006, Basol co-founded SoloPower to develop an electroplating-based, low cost, high efficiency CIGS solar cell technology and is presently the CTO and Board Member of this Silicon Valley start-up company. He has 92 issued and over 50 pending patents and over 100 publications in the fields of solar energy and semiconductor manufacturing.

Saturday, April 12, 2:30pm - 2:45pm (Parallel Session)

Policy Lecture **Energy Policies in Turkey** **Jan Nahum**

Jan Nahum is currently the CEO of Hexagon, a Turkish consultancy company. In 2005 Mr. Nahum was named CEO and member of the board of Petrol Ofisi, a Turkish fuel distribution company or fuel supplier company company. He serves as board member to Karsan, a Turkish Motor Vehicles and Spare Parts corporation and is president of the board of +90, a fast manufacturing technologies company. His areas of expertise include automotive, industrial design, industrial engineering, strategic planning and management. Prior to joining Petrol Ofisi, Mr. Nahum was president of international development of Fiat Auto S.P.A. from 2002 through 2004. He was CEO of Tofas Turkey, one of the flagship organizations in the Turkish Automotive Industry, from 1998 to 2002 and general manager of the same company since 1994. Before that he served as general manger to Otokar, also a Turkish automotive manufacturer, for 10 years. Mr. Nahum began his career in 1973 with Otosan, a Koc company in partnership with Ford Automotive, as project engineer. He later became head of design and director of the Koc R&D division, where he remained for nearly 10 years.

Mr. Nahum graduated from renowned Robert College in Istanbul in 1971 and received an M.DES.RCA degree in automotive design from the Royal College of Art in London in 1973.

SYMPOSIUM ON INNOVATION IN ENERGY SOLUTIONS

Saturday, April 12, 2:45pm - 3:00pm (Parallel Session)

Electric Energy Systems: Status and Trends **Alex Stankovic**

Aleksandar M. Stankovic obtained the Dipl. Ing. degree from the University of Belgrade, Yugoslavia in 1982, the M.S. degree from the same institution in 1986, and the Ph.D. degree from Massachusetts Institute of Technology in 1993, all in electrical engineering. He has been with the Department of Electrical and Computer Engineering at Northeastern University, Boston since 1993, presently as a Distinguished Professor. He is a Fellow of IEEE and serves as an Associate Editor for IEEE Transactions on Power Systems, IEEE Power Engineering Letters and IEEE Circuits and Systems Magazine. He previously served as Associated Editor of IEEE Transactions on Control System Technology, covering power electronics and drives. He has held visiting positions at the United Technologies Research Center (sabbaticals in 2000 and 2007) and at L'Universite de Paris-Sud and Supélec (in 2004). He is a co-editor of book series on Power Electronics and Power Systems for Springer.

Saturday, April 12, 3:30pm - 3:15pm (Parallel Session)

Concepts in the Design and Testing of Li-Ion Batteries **Mehmet Rona**

Dr. Rona received his undergraduate degree in electrical engineering from Robert College in 1961. He subsequently joined Princeton University to complete his doctoral studies through a Fullbright scholarship. He worked in the solid-state physics and materials science program at the Princeton University and completed his doctoral work in 1966. He taught physics at the Naval School in Turkey from 1966 to 1968, and then at Robert College until 1969. He joined Middle East Technical University in 1969 and taught physics in both undergraduate and graduate levels. He also served as a department chair, Associate Dean of Arts and Sciences Faculty, Vice Rektor, and Acting Rektor. In 1979, he returned back to the United States to work at Arthur D. Little where he became Vice President. Currently, he is the Director of Applied Physics and Modeling at TIAX, Inc. His interests are broad and related to solid-state theory and systems modeling with an applied mathematics emphasis.

Saturday, April 12, 3:15pm - 3:30pm (Parallel Session)

Importance of Government Support in Energy Innovations

Serpil Güran

Serpil Güran is a research scientist in the Division of Science, Research & Technology at the New Jersey Department of Environmental Protection (NJ DEP). Prior to joining the NJ DEP, she served as post-doctoral researcher at National Renewable Energy Laboratory (NREL) in Golden, Colorado, on thermal processing, such as pyrolysis, combustion and gasification of biomass and waste, and at Princeton University, Mechanical and Aerospace Engineering Department, on rocket fuel combustion, and the NOx emissions reductions. She specializes on renewable energy technologies especially biomass, biorefineries and biofuels. Her current research interests are low carbon fuels, carbon capture and sequestration, renewable energy, electricity generation from renewables such as solar, wind and biomass, green credits, energy efficiency, grid reliability, distributed generation, fuel cells, micro-turbines and sustainability.

She holds B.Sc. and M. Sc. in Chemical Engineering, and Ph.D. in Fuel and Energy Engineering. In addition to a patent and invention disclosures, her publications appeared in magazines such as Fuel, Energy & Fuels, Journal of Analytical and Applied Pyrolysis, and Journal of Institute of Energy.

Saturday, April 12, 3:30pm - 3:45pm (Parallel Session)

Innovation in the Field of Photovoltaics

Bülent Başol

Dr. Başol received his B.S and Ph.D. degrees from Boğaziçi University and UCLA, respectively, in the field of electronics. After graduation, he led the R&D activities at Monosolar Inc., where he developed a high efficiency thin film CdTe solar cell technology. In 1984, this technology was transferred to British Petroleum and eventually yielded the highest efficiency thin film photovoltaic (PV) modules at that time. In 1985, Basol co-founded International Solar Electric Technology in California where he directed several solar cell development efforts supported by DOE, NASA, DOD, and DOC, and innovated vacuum and non-vacuum based techniques for CIGS and CdTe solar cell fabrication. Among these techniques were novel painting approaches for high efficiency CIGS device fabrication and high power density flexible solar cells for space, a technology that received an innovation award from NASA. In 2000, Basol joined NuTool Inc., a Silicon Valley start-up company, as a Board Member and CTO, where he led the efforts to develop novel electroplating, electrochemical mechanical deposition, electropolishing processes and equipment for IC interconnect applications. In 2004 ASMI acquired NuTool, and Bulent became the CTO of the new company. In 2006, Basol co-founded SoloPower to develop an electroplating-based, low cost, high efficiency CIGS solar cell technology and is presently the CTO and Board Member of this Silicon Valley start-up company. He has 92 issued and over 50 pending patents and over 100 publications in the fields of solar energy and semiconductor manufacturing.

Saturday, April 12, 4:15pm - 5:45pm (Parallel Session)

**TASSA-Turkish Coalition of America (TCA) Joint Workshop on
Innovation in Grassroots Politics**

Chair and Presenter: Lincoln McCurdy

Mr. McCurdy is president of the Turkish Coalition of America (TCA), a 501c3 not-for-profit organization, based in Washington, DC. TCA fosters understanding of Turkish American issues through public education. (Website for TCA is www.turkishcoalitionofamerica.org)

Mr. McCurdy has over 30 years of leadership and management experience in both U.S. government service and the private sector. He has extensive experience in dealing with bi-national boards; working with senior officials of the governments and military of the United States and Turkey; leading trade/investment missions and U.S. congressional delegations to Turkey; co-sponsoring activities with the State and Commerce Departments, Environmental Protection Agency, Smithsonian Institute and National Public Radio; and fundraising.

Saturday, April 12, 4:15pm- 5:45pm (Parallel Session) Women's Leadership Workshop

Chair: Sema Başol

Sema Basol is a global marketing and public relations executive with over 25 years of experience both in the U.S. and Turkey. She has worked with multi-billion dollar corporations like Mattel Inc. and Koc Holding, small businesses, as well as non-profits such as educational and cultural institutions. At Mattel Inc., as Director of Consumer Products, she built Mattel brands into new businesses that generated annual retail sales of over half billion dollars in international markets. As Executive Director of a US based nonprofit, she was instrumental in launching an innovative distance-learning program connecting Turkish and American educators and their students in partnership with NASA and US school districts.

Currently, Sema is collaborating with Santa Clara University's Global Women's Leadership Network to explore the development of a women's leadership program for Turkey. Everything Turkish fascinates Sema so over the years, she has taken an active role in Turkish-American affairs, community organizations and arts. Sema has a B.A. degree from Bogazici University and an M.B.A. from UCLA Anderson School. She has been living in California for the last 30 years, is married to Dr. Bulent Basol and has two sons.

Panelist: Linda Alepin

Linda T. Alepin is Founding Director of the Global Women's Leadership Network (www.GWLN.org) and Dean's Executive Professor of Entrepreneurship, Santa Clara University.

Linda has been a pioneer and visionary all her career. She was one of the few women graduates from Stanford University in the sixties to choose a career in the information technology industry. She first joined IBM in its newly formed emerging business segment. In 1978 she joined Amdahl Corporation as it rapidly morphed from a startup to a major force in the mainframe industry worldwide. She held positions of increasing responsibility in marketing, finance, and strategy, culminating with her election to corporate officer and strategist for its billion dollar turnaround in 1993. In the mid 1990's, she was so fascinated by the Internet's potential that she founded an early Internet startup called Pebblesoft where she was CEO and President. On the heels of the Asian financial crisis which necessitated the closing of this nascent enterprise, she became the CEO of Center for New Futures, a leadership consulting company.

Linda is a noted public speaker on leadership and management. She is the recipient of the Santa Clara County Commission on the Status on Women's award for contributions to the equality of women and the YWCA's Tribute to Women in International Industry. She is a wife and the mother of four.

Panelist: Shelli Hendricks

Ms. Hendricks is currently responsible for the portfolio of external executive programs for EMC's top 250 executives. As part of the EMC's global enterprise Executive Program team offering customized internal executive education, Shelli serves as the Executive Development function's resident technology strategist on the design team for senior executive development. Shelli is on assignment at EMC's Hopkinton, MA headquarters for six months.

Ms. Hendricks was recently elected to a two-year term as President of EMC's Women's Leadership Forum West Coast (WLFWC). As the Founding Chair of Professional Development for WLFWC and an avid mentor, she is a sought-after speaker and coach. She is also a volunteer Director of Mentoring Programs for Alliance of Technology & Women (ATW) – Silicon Valley. With over 15 years of experience in instructional design and teaching, her passion is developing the next generation of leaders. Shelli completed her MS in Educational Technology from Nova Southeastern University and a BA in Literature from San Francisco State University. She is a member of American Society for Training & Development (ASTD), Alliance of Technology & Women (ATW) – Silicon Valley and the eLearning Guild. She has also published numerous articles on learning and development on EMC's internal weblog.

Panelist: Nakiye Avdan Boyacıgiller

Nakiye Avdan Boyacıgiller is Dean of the Faculty of Management at Sabancı University in Istanbul, Turkey. Born in the US and educated in Turkey, France and the US, her research, teaching and leadership activities all reflect her interests in enhancing the effectiveness of multicultural work groups and cross border collaboration.

Professor Boyacıgiller's research on cross cultural management has appeared in leading academic journals. Her on-going research is a large-scale effort involving four primary researchers from around the world, entitled "Organizational Competitiveness: Exploring the Roles of Human Resource Management and Organization Culture in Multinational Corporations," funded by a National Science Foundation grant. An award winning teacher, Boyacıgiller edited Crossing Cultures: Insights from Master Teachers (with R. Goodman and M. Phillips). A member of six editorial boards, Boyacıgiller was elected a Fellow of the Academy of International Business in 2007.

Dr. Boyacıgiller received her doctorate from the Haas School of Business, University of California, Berkeley, her MBA degree from the University of California, Los Angeles, and her BA degree from Boğaziçi University, Istanbul, Turkey. She has taught at San Jose State University, the Anderson School at UCLA, the Haas School at University of California, Berkeley, the Stockholm School of Economics' Institute of International Business, Bilkent University, and Boğaziçi University. Boyacıgiller has held leadership positions in several professional and academic organizations including most significantly her roles as VP Programs for AIB (2002-04), Chair of the International Management Division, Academy of Management (1996-97) and membership on the Academic Advisory Board of the Cyprus International Institute of Management.

Panelist: Funda Sivrikaya Şerifoğlu

Prof. Funda Sivrikaya Şerifoğlu is the first president of the newly found Düzce University. She tries to organize the capabilities and capacities of Düzce University for it to become a university which generates value for all stakeholders. She also tries to develop infrastructures to convert its incredibly high potentials into productive capacities. Small, agile teams are formed to work on projects leading to these goals. Prof. Sivrikaya Şerifoğlu is the founding editor of a national and the associate editor of an international scientific journal, and serves as a referee for several scientific journals.

After graduating as the valedictorian from Boğaziçi University having a B.S. degree in Industrial Engineering, Funda Sivrikaya Şerifoğlu completed her M.S. degree in the Department of Engineering Economic Systems at Stanford University. She then returned to Turkey, settled in Düzce and got her Ph.D. degree from Boğaziçi University. She coordinated one of the two pioneering strategical development planning projects of Turkey at the provincial level. She is actively involved in several national and local NGOs helping the local ones to develop institutional capacities and projects on sustainability, environment, education, women, children and disabled people. She is the representative of Turkish Education Foundation (TEV) and the Düzce delegate of Çağdaş Yaşamı Destekleme Derneği (ÇYDD).

Funda Sivrikaya Şerifoğlu is married to Mehmet Şerifoğlu and has a 16-year old daughter, Büke, and a 10-year old son, Kaan.

Saturday, April 12, 4:15 pm- 5:45pm (Parallel Session)

**TASSA-Institute of Turkish Studies (ITS) Joint Workshop
on Financing Innovation**

Chair: Sezer Ülkü

Sezer Ülkü is an Assistant Professor at Georgetown University McDonough School of Business, where he teaches courses on Operations Strategy and Operations Management. He specializes in operations strategy, new product development, and supply chain management. His most recent research investigates the operational drivers of returns in private equity. Since 2005, Sezer Ülkü is the director of the Foreign Residency conducted by Georgetown's International Executive MBA Program in Istanbul. In this role, he has led consulting projects with leading Turkish companies including Acibadem Saglik Grubu, Arcelik, Brightwell Holdings, Digiturk, Dogus Holding, D-Smart, Eczacibasi Ilac, Eczacibasi Yapi, Finansbank, Garanti Bankasi, Goldas, Mavi Jeans, OMSAN, Teknoloji Holding, Turkcell, Turkven and Vestel. He has also worked with SAP, Lucent Technologies, 4R Systems and Allied Signal on research and consulting projects. Sezer received his PhD degree in Management from INSEAD in Fontainebleau, France, and his BS and MS degrees in Electrical and Electronics Engineering from Bilkent University in Ankara.

Panelist: Feyzi Çelik

Feyzi Çelik is president and CEO of OnePIN, Inc. He created the unique OnePIN technology that allows people to automatically manage contact information across wired and wireless devices. His innovations in personal networking infrastructure have earned two patents and nine pending patents on OnePIN technology.

Mr. Çelik has spurred product innovation since founding OnePIN in 1998, and the company is now working with leading telecommunications firms to bring OnePIN into the handsets of mobile subscribers worldwide.

Prior to founding OnePIN, Mr. Çelik was president and CEO of the North American division of Koc Group, a \$12 billion Fortune Global 500 company based in Istanbul. He also served as a member of Koc Group's International Venture Creation and Business Development Team.

Mr. Çelik holds a Master of Business Administration with high distinction from the Babson College Graduate School of Business, a Master of Mechanical Engineering from Boston University and a Bachelor of Mechanical Engineering from the Middle East Technical University (METU) College of Engineering. He received the 2004 Babson College W.F. Glavin Center Global Entrepreneur Award.

Panelist: Vedat Eyüboğlu

Vedat Eyüboğlu is the Co-Founder and Chief Technology Officer of Airvana. Prior to founding Airvana, Vedat was most recently Vice President and General Manager of Home Networking Product Operation in Motorola's Internet and Networking Group. Prior to this role, he was Vice President of Technical Staff in Research and Advanced Development at Motorola, responsible for advanced technology in high-speed communications and digital-signal processing. Vedat, who was a Dan Noble Fellow at Motorola, holds over 30 patents on technologies related to high-speed modems, multimedia, and wireless communications. Vedat was an active participant in several TIA and ITU standards groups and was a leading contributor to commercially successful ITU modem standards V.34 and V.90. Vedat is a Fellow of the IEEE and holds a Ph.D. in Electrical Engineering from Rensselaer Polytechnic Institute (RPI).

Panelist: Ahmet Özalp

Ahmet Özalp is a Partner in Atlas Venture's technology group. He joined Atlas Venture in 2003, and focuses on investment opportunities in cable, broadband, digital media, convergence, consumer electronics, and wireless markets.

Most recently, he was Vice President of Marketing at Narad Networks, a start-up in the broadband access and cable infrastructure space. Prior to Narad, Ahmet was a consultant for Bain & Company in its technology practice and worked extensively with telecommunications equipment vendors and service providers as well as enterprise software companies. Earlier, Ahmet was a capital market strategist with Goldman Sachs. In the early half of his career Ahmet spent five years at Newnet, a telecom startup, which was acquired by ADC during his tenure. At Newnet Ahmet was a member of the initial team who created the industry's first low cost, UNIX based SS7 platform and held successive positions as software engineer, product manager and director of engineering. While at ADC, Ahmet was the Product Line Director of the Advanced Wireless Intelligent Networks Group and launched the successful CALEA product line.

Ahmet sits on the boards of Atlas portfolio companies ExtendMedia, Myvu and Visual Mining. He also works closely with AEB, Arbor Networks, Gotuit, and Isilon Systems.

Ahmet has had several articles published in the trade and business press during the course of his career. He also holds two patents in the areas of wireless communications and advanced intelligent networks. He obtained an MBA degree from the Wharton School at the University of Pennsylvania and an MS in Electrical Engineering from Columbia.

Saturday, April 12, 4:15 pm- 5:45pm (Parallel Session)

Chair and Presenter: Çiğdem Acar

Admitted to the Bars of New York and New Jersey, Çiğdem A. Acar counsels corporate clients and their employees in U.S. immigration, nationality and consular law. Her firm's immigration practice primarily involves obtaining non-immigrant and immigrant visas for banks and corporations who wish to transfer executives, managers, and professionals with specialized knowledge or other key personnel temporarily or permanently to the United States. She also represents individuals and corporate investors as well as prominent artists, scholars, scientists and athletes in obtaining temporary and permanent employment visas in the United States. Ms. Acar works closely with other legal counsel, local Chambers of Commerce and other U.S. institutions to facilitate the establishment of new businesses in the U.S. Ms. Acar is proud to be a part of start-up companies' and foreign nationals' success stories in the U.S.

Çiğdem A. Acar received her Juris Doctor degree from Fordham University School of Law. Ms. Acar also has a Master's Degree in Sociology from the New School for Social Research and a University Degree in Economics from New York University.

Between 1994 until 1999, Ms. Acar served as Chair of the Immigration Law Committees of the New York Women's Bar Association and the Women's Bar Association of the State of New York. Her other professional affiliations include the American Immigration Lawyers Association and the Association of the Bar of the City of New York.

Ms. Acar is also active in various international business organizations; she is a member of the Board of the Turkish American Business Forum, the Turkish-American Chamber of Commerce and past Board member of the American Turkish Society and the Belgian American Chamber of Commerce. Ms. Acar is also the founder and President of a New York non-profit organization, Bridges of Hope Project, established to support educational projects in Turkey (www.bridgesofhopeproject.org)

Fluent in Turkish and French, Ms. Acar is a frequent speaker on U.S. immigration law issues within the context of international business, frequently speaking at corporate and public functions on the aforementioned issues.

FEATURED CONFERENCE SPEAKER

Saturday, April 12, 6:00pm - 7:00pm

Featured Conference Speaker

Western Horizons of Fatih Sultan Mehmet's Artistic Patronage

Gülru Necipoğlu

Gülru Necipoğlu is the Aga Khan Professor of Islamic Art and Architecture at Harvard University since 1993 and the Editor of *Muqarnas: An Annual on the Visual Culture of the Islamic World* and Supplements to *Muqarnas* (published by E.J. Brill, Leiden). Her articles include comparative studies on early modern Islamic art and architecture (Ottoman, Safavid, Mughal), and deal with cross-cultural artistic exchanges between Byzantium, Renaissance Italy, and the Ottoman Empire. She has published the following books: *Architecture, Ceremonial and Power: The Topkapı Palace in the Fifteenth and Sixteenth Centuries* (Cambridge, MA, 1991), *The Topkapı Scroll: Geometry and Ornament in Islamic Architecture* (Santa Monica, CA, 1995), and *The Age of Sinan: Architectural Culture in the Ottoman Empire* (London, Princeton, 2005). Her *Topkapı Scroll*, recently translated into Persian (Tehran, 2005), has won the Albert Hourani Book Award of the Middle East Studies Association and the Spiro Kostoff Book Award of the Society of Architectural Historians. *The Age of Sinan* received honorable mention for the 2005 Albert Hourani Book Award, and it was awarded the 2006 Fuat Köprülü Book Prize by the Turkish Studies Association.

Gülru is an elected member of the American Philosophical Society, held at Philadelphia, for “promoting useful knowledge,” and the International Palladio Center for the Study of Architecture in Vicenza. She is a board member (mutevelli heyeti) at the Sabanci University in Istanbul and a member of the Sabanci Museum international committee.

Gülru recently edited with Sibel Bozdoğan the proceedings of a conference they had both organized under the auspices of the Aga Khan Program at Harvard University, with a generous grant from the Aga Khan Trust for Culture in Geneva. The conference proceedings are published in *Muqarnas* 24 (2007), *Historiography and Ideology: Architectural Heritage of the “Lands of Rum”*. This special volume of *Muqarnas* includes a preface by Gülru and Sibel, titled “Entangled Discourses: Scrutinizing Orientalist and Nationalist Legacies in the Architectural Historiography of the ‘Lands of Rum’,” and Gülru’s article, “Creation of a National Genius: Sinan and the Historiography of ‘Classical’ Ottoman Architecture”.

Sunday, April 13, 9:30am - 11:00am

**Innovation Enterprises
Moderator: Yaman Yener**

Dr. Yaman Yener is Associate Dean of Engineering for Research and Graduate Studies and Carl R. Hurtig College of Engineering Distinguished Professor of Mechanical Engineering at Northeastern University, Boston, MA. He received his BS and MS degrees in Mechanical Engineering from the Middle East Technical University (METU), Ankara, Turkey in 1968 and 1970, and his Ph.D. degree in Mechanical Engineering in 1973 from North Carolina State University. He was on METU faculty from 1974 to 1980, holding positions as Assistant and Associate Professor of Mechanical Engineering. He served as the Chairman of the Mechanical Engineering Department at METU between 1978 and 1980. He taught as Visiting Associate Professor at the University of Delaware from 1980 to 1982.

As Associate Dean of Engineering, Dr. Yaman Yener serves as Director of the Graduate School of Engineering, and coordinates and promotes research activities within the College. He is directly in charge of two interdisciplinary master's programs: Information Systems and Telecommunication Systems Management. As Professor of Mechanical Engineering, he maintains his own research program in transient radiation with short-pulse irradiation applications, radiative transfer in high-temperature aerosol, simultaneous radiation and other modes of heat transfer in radiatively participating media, natural convection stability in enclosed spaces, transient forced convection and nano/microscale heat transfer. He has published over 70 technical and research papers, co-authored two graduate-level books, Heat Conduction, Taylor and Francis, 1993 and Convective Heat Transfer, CRC Press, 1995, and edited three conference proceedings. In recognition of his contributions to the field mechanical engineering, Dr. Yener was elected, in 2000, a Fellow of the American Society of Mechanical Engineering.

HOST INSTITUTION KEYNOTE ADDRESS

Sunday, April 13, 9:30am - 10:00am

Host Institution Keynote Address
Agendas and Architecture of Global Health Research
Barry Bloom

A leader in international health and former consultant to the White House, Dr. Barry Bloom continues to pursue an active interest in bench science as the principal investigator of a laboratory researching the immune response to tuberculosis, a disease that claims more than two million people each year.

He has been extensively involved with the World Health Organization (WHO) for more than 30 years. He is a member of the WHO Advisory Committee on Health Research and has chaired the WHO Committees on Leprosy Research and Tuberculosis Research, and the Scientific and Technical Advisory Committee of the UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases.

Dr. Bloom currently serves on the US AIDS Vaccine Research Committee, the Scientific Advisory Board of the National Center for Infectious Diseases of the Centers for Disease Control and Prevention, and the National Advisory Board of the Fogarty International Center at the National Institutes of Health. He also chairs the board of trustees for the International Vaccine Institute in South Korea, which is devoted to promoting vaccine development for children in the developing world.

In the past, he has advised the Joint United Nations Programme on HIV/AIDS (UNAIDS) and chaired the Vaccine Advisory Committee of UNAIDS, where he played a critical role in the debate surrounding the ethics of AIDS vaccine trials. He also has served on the National Advisory Council of the National Institute for Allergy and Infectious Diseases; the Scientific Advisory Board of the National Center for Infectious Diseases; and the Governing Board of the Institute of Medicine.

Dr. Bloom came to HSPH in 1998 from the Albert Einstein College of Medicine, where he served as chairman of the Department of Microbiology and Immunology from 1978 to 1990, the year in which he became an Investigator of the Howard Hughes Medical Institute.

In 1978, he was a consultant to the White House on international health policy.

Dr. Bloom holds a bachelor's degree in biology from Amherst College and a doctoral degree in immunology from Rockefeller University.

He is a past president of the American Association of Immunologists and the Federation of American Societies for Experimental Biology. He received the first Bristol-Myers Squibb Award for Distinguished Research in Infectious Diseases, shared the Novartis Award in Immunology in 1998, and was the recipient of the Robert Koch Gold Medal for lifetime research in infectious diseases in 1999.

Sunday, April 13, 10:00am - 10:30am

Conference Keynote Address

Fueling Medical Innovation with High-Tech Engineering

Sadık Esener

Sadık Esener is a Professor of Electrical and Computer Engineering, Nano Engineering, and Materials Sciences at the University of California, San Diego (UCSD). He holds a Ph.D. degree in Applied Physics and Electrical Engineering from UCSD (1987). He is the Director and PI of the NanoTumor Cancer Nanotechnology Center funded by the National Cancer Institute. Previously, he served as the Director of the Center for Heterogeneously Integrated Photonics Systems (CHIPS), a multi-university DARPA funded opto-center for biophotonics and nanophotonics. From 1997 to 2001, he has served as the director of the Opto-Electronic Stacked Processors (OESP) industry/university consortium on Free Space Optical Interconnects and on the development and integration of Vertical Cavity Surface Emitting Laser arrays. From 1998 to 2002, he also served as the Director of the Fast Read-out Optical Data Storage Industrial Consortium.

Under his direction, his research group at UCSD has made many pioneering contributions to the fields of optical interconnects, spatial light modulation, optical data storage, bio-optoelectronics as applied to gene chips, cell sorting and manipulation and heterogeneous integration of photonics, electronics and biological components. He has published more than 350 journal and conferences articles, and more than 250 presentations in international scientific meetings, 75 of which were invited and he holds 15 issued patents. He has authored many book chapters, edited several proceedings, and chaired and organized over fifteen scientific international conferences. Esener is also a co-founder and served on the board of directors and scientific advisory boards of several companies including Nanogen Inc. that relates to his work on electrically addressed gene chips, Call/Recall Inc. that relates to his work on multilayer optical disk storage, Optical Micro Machines and Ziva Inc. that relate to his work on all optical switching and free space optics, and Genoptix that relates to his more recent work in biophotonics. He is a fellow of the Optical Society of America.

Sunday, April 13, 10:30am - 11:00am

Conference Keynote Address

Innovation in Turkish Defense Industry

Murad Bayar

Mr. Murad Bayar received his B.S. degree with High Honours in Electrical and Electronics Engineering from Middle East Technical University in 1987. He also holds a Master's degree in Electrical and Computer Engineering from North Carolina State University and an MBA degree from Yale University's School of Management.

In his professional career, Mr. Bayar worked as a research engineer at ASELSAN, leading defense electronics company of Turkey and later as a project manager for electronic warfare programs at the Undersecretariat for Defense Industries. After receiving his MBA, Mr. Bayar joined the New York Office of international management consulting firm, Booz Allen Hamilton. In February 2004, he was appointed as the Undersecretary responsible for overseeing major procurement programs of the Turkish Armed Forces and leading the development of the Turkish defense industry. He is married with two children.

TASSA-TURKISH AMERICAN BUSINESS CONNECTION (TABC) JOINT PANEL ON MANAGING AND FINANCING INNOVATION

Sunday, April 13, 11:30am - 12:30pm

TASSA-Turkish American Business Connection (TABC) Joint Panel on Managing and Financing Innovation

**Moderator:
Efe Orhun**

Mr. Orhun is the Co-founder of Derivative Technology (DTech). He has spent the past 8 years focused on mitigating risk by developing holistic IT security policy for technology organizations, building new technology companies devoted to innovative mobile application development, and managing corporate/governmental/nonprofit consortia to promote mutual investment in the US and Turkey.

As co-founder of Derivative Technology (DTech), Mr. Orhun develops mobile technology data management applications for the international market and holds two Australian patents in portable power and mobile computing. He founded and has served as president of a Silicon Valley non-profit, the Turkish American Business Connection (TABC) since 2004. TABC facilitates business connections between professionals in Turkey and the U.S. Mr. Orhun has also worked for Applied Materials' Global IT Security Group since 2005, where he advises on IT risk for mergers and acquisitions, as well as compliance and security controls.

Previously Mr. Orhun worked at palmOne, Inc. where he developed and enforced company-wide IT security policies, performed internal network and intellectual property audits, along with broader IT security responsibilities.

Mr. Orhun earned a B.S. in Business Administration with a Management Information Systems focus and a minor emphasis on communications, from the Michigan Technological University in 2000. During this time he consulted for two high schools in the Upper Peninsula of Michigan. In 1999 Mr. Orhun co-founded "built2serve", a successful start-up company that specialized in IT consulting and computer hardware sales.

The Business of Innovation Oltaç Ünsal

Mr. Ünsal is the Managing Director of Smyrna Capital Corp., a global investment company. He has developed sophisticated trading strategies for absolute returns through class work with Nobel laureates Myron Scholes and William Sharpe; having also previously worked at Credit Suisse First Boston Structured Finance Group and Goldman Sachs Fixed Income Principal Investments since 1995. Equally comfortable in technology entrepreneurship as a founder or an early executive of four software and wireless startups, and as an investor and advisor to countless others, Mr. Ünsal also spent time in portfolio management, business and strategy development at Microsoft and Cisco Systems. He spends considerable time on technology-based economic development activities in the US and Turkey as a pro bono consultant and advisor. Oltaç has an MBA from Stanford Business School, a Bachelor of Arts in Philosophy, Economics and Politics from Whitman College, and attended Law School at University of Washington.

TASSA-TURKISH AMERICAN BUSINESS CONNECTION (TABC) JOINT PANEL ON MANAGING AND FINANCING INNOVATION

Innovation in Regional Development: the Mersin Experience

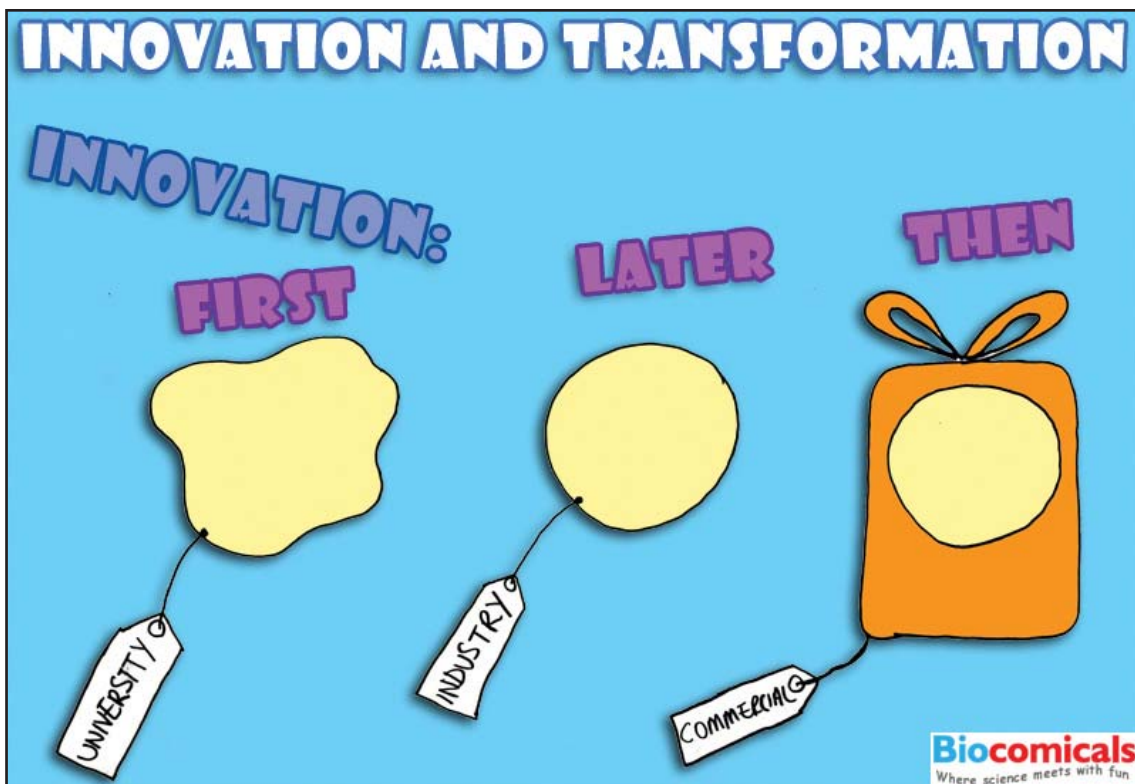
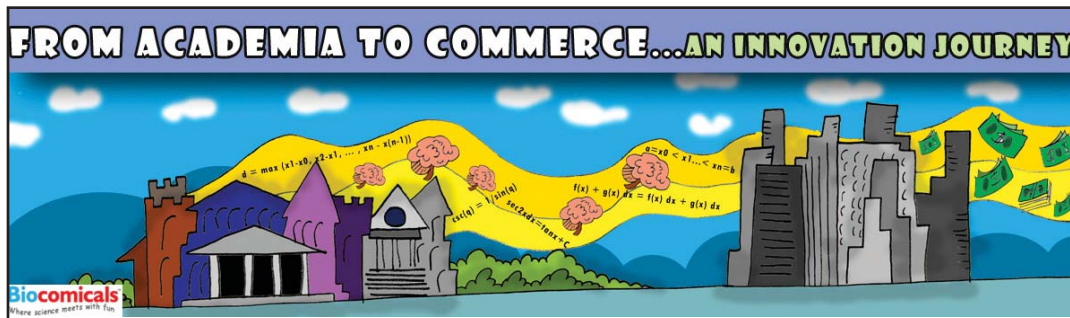
Kadri Şaman

Kadri Şaman has served as the President of Mersin Chamber of Commerce and Industry since 2002 further to his service as Vice President during 1999-2001. He was a board member of the Mersin Industrialists and Businessmen Association and a Board member and President of the Turkish Small and Medium Size Businesses Foundation between 1996-1999. He is currently promoting innovation among business in Mersin and has spearheaded the establishment of the Mersin Technology Development Region. Mr. Şaman has started his industrial career early at his family company. While working as the General Manager of his company, he created or participated actively in numerous organizations which promoted the development and improvement of business in Mersin. Mr. Şaman has graduated from Çukurova University with a degree in Mechanical Engineering. He continued his professional and language studies in Germany from 1975 to 1977.

Innovation of Tolerance

Halil Kulluk

Halil Kulluk is the Founder and Chairman of Intekno Group of Companies. He received his B.S. in Production Engineering and Management from the University of Nottingham, England, and his M.E. in Mechanical Engineering from Carnegie Mellon University (CMU) in Pittsburgh, Pennsylvania, U.S.A. During 1984-1988 he worked as a Research Engineer, System Scientist and the Director of the Flexible Manufacturing Laboratory at the Robotics Institute of CMU. In 1988, he founded the Manufacturing and Engineering Technology Application Center (METAC) within the Robotics Institute and served as the Director of the Center for five years. At METAC, he was actively involved in the creation and application of technology transfer models between the university and industry in the fields of robotics, computer integrated manufacturing, artificial intelligence and expert systems. He was also appointed Adjunct Professor by the Department of Mechanical Engineering where he taught in the area of manufacturing sciences. In 1987, Kulluk founded International Technology & Knowledge Company, Inc. (Intekno) in Pittsburgh. This spin-off company from Carnegie Mellon University acted as the foundation for Intekno Technology Transfer Corporation which was later started by Kulluk, in Istanbul. Hence, these two start-ups created the initial pillars for the formation of Intekno Group. At present, Intekno Group conducts business between U.S.A, Europe, Middle East, CIS countries and Turkey via the main fields of engineering & technology transfer – including construction supervision and technical services, international trade, and finance. Halil Kulluk has been an executive advisor for PNC Bank of USA for activities related to the US Exim Bank in Turkey since 1999. Between August 2003 – February 2006 he was the Chairman of Turkish-Georgian Business Council, Board Member of Turkish-Eurasian Business Councils of DEİK (Foreign Economic Relations Board). At present, he is the Coordinator Chairman of Turkish-Central European Business Councils and the Chairman of Turkish-Slovak Business Council. He is a Member of the National Innovation Initiative of Turkey which has been supported by Sabancı University and TUSIAD (Turkish Industrialists and Businessmen's Association). Kulluk is also the member of the International Advisory Board of 'The Global Colloquium on Engineering Education' organized by the American Society for Engineering Education hosted by Boğaziçi University in October 2007, and was the Chairman of Industrial Board of the "VIII. Conference of Management Sciences" organized by Istanbul Technical University. He is the Founding Advisory Board Member of Rumi Research and Application Center at Selçuk University in Konya, Turkey. In August 2007, he was elected to the Advisory Board of the Executive Entrepreneurship Program supported by Qatar Science and Technology Park and Carnegie Mellon University in Doha, Qatar.. He speaks Turkish, English and French fluently. He is married and has two children.



Comics By Alper Uzun

Alper Uzun lives in Boston where he pursues a Ph.D in computational molecular biology and bioinformatics at Northeastern University. His main focus area is effects of SNPs on protein structure & function by examining possible disease-related pathways associated with a particular nsSNP(s), and link the diseases with the current available molecular structure data. He is also professional cartoonist and Co-Founder of Biocomicals (www.biocomicals.com) where scientists with artistic skills express science and fun.

TASSA 2008

POSTER TITLES

ENGINEERING AND APPLIED SCIENCES

Crash Test simulation of Super Rail Using Finite Element Analysis Ali O. ATAHAN Associate Professor and Department Head, Department of Civil Engineering, Mustafa Kemal University, Tayfur Sokmen Campus, 31040, Hatay, TURKEY. e-mail: aoatahan@mku.edu.tr.

Tuning Surface Optical Properties of Solar Cells Using Polymeric Nano Templates Özgür Yavuzçetin¹, Cheol-Soo Yang¹, Sekar Thirunavukkarasu², Thomas Russell² and Mark Tuominen¹

¹ Department of Physics, ² Dept. of Polymer Science and Eng.,
UMass Amherst, Amherst-01003.

Biocompatible, Superparamagnetic, Flame Synthesized Iron Oxide Nanoparticles: Cellular Uptake and Toxicity Studies

Kivilcim Buyukhatipoglu*, Tiffany A. Miller*, Alisa Morss Clyne*

*Drexel University, Philadelphia, PA, 19104.

Widefield Subsurface Microscopy of Integrated Circuits Using Numerical Aperture Increasing Lens Hakan Köklü, Justin I. Quesnel, Bennett B. Goldberg, Selim Ünlü Boston University, Boston, MA, 02215.

A New Technique for Preventing Liquefaction-Induced Building Damages during Earthquakes Ece Eseller-Bayat¹, Mishac K. Yegian², Oguz Deniz³, Seda Gokyer³, NSF Award #: CMS-0509894

¹ PhD Candidate, ² Distinguished Professor of Civil Engineering, ³ Master Student, Northeastern University, Boston, MA.
e-mail: eeseller@coe.neu.edu.

2008 TASSA YOUNG SCHOLARS TRAVEL GRANT RECEIPT

Design and Control of an Autonomous Vehicle for City Driving:

An Urban Challenge Arda Kurt, The Ohio State University, Columbus, Ohio Ahmet Yazıcı, Osmangazi University, Eskişehir, Turkey
Ümit Özgüner, The Ohio State University, Columbus, Ohio.

Bacterial Imaging Using Self-interference of Fluorescence

Mehmet Doğan, Boston University; Ayça Yalçın, Boston University; Sumita Jain, Harvard University; Marcia B. Goldberg, Harvard University; Anna K. Swan, Boston University; M. Selim Ünlü, Boston University; Bennett B. Goldberg, Boston University.

Multi-Objective Discrete Design Optimization of Portable Concrete Barriers by Coupling Grey Relational Analysis with Successive Taguchi Method Murat Buyuk*, Ali Osman Atahan**p, Hasan Kurtaran***, Dhafer Marzougui* and Cing-Dao Kan* *FHWA/NHTSA National Crash Analysis Center, George Washington University, Ashburn, VA **Department of Civil & Environmental Eng., Worcester Polytechnic Institute, Worcester, MA ***Department of Design and Manufacturing Eng., Gebze Institute of Technology, Gebze / Kocaeli, Turkey p: presenting author. method, orthogonal array, discrete optimization.

Development Of European End-Treatment Twiny Using Simulation And Crash Testing Ali O. ATAHAN Associate Professor and Department Head, Department of Civil Engineering Mustafa Kemal University; Tayfur Sokmen Campus, 31040, Hatay, TURKEY; Guido BONIN, Post Doctoral Fellow Department of Hydraulics, Transportation and Roads The University of Roma, "La Sapienza" Via Eudossiana 18, 00184 Rome, ITALY; Luigi CICINNATI, Senior Engineer, Design & Analysis Division; Fracasso S.p.A. ,Via Barbariga 7, Fiesse d'Artico, 30032 Venezia, ITALY.

Nanoscale Determination of Molecular Conformation on Layered Surfaces and Biological Applications Ayça Yalçın¹, Francesco Damini², Gabriele di Carlo², Marcella Chiari², Bennett B Goldberg¹, M. Selim Ünlü¹; ¹Boston University, Boston, MA, 02215, ²Consiglio Nazionale delle Ricerche, Milano, Italy.

Development of a Biosensor for Cancer Biomarkers in CMOS Technology Onur Tigli¹, Louis Bivona², Cynthia Chaterjee², Mona E. Zaghloul¹, Patricia Berg ² -- ¹Electrical and Computer Engineering Dept. and ²Biochemistry and Molecular Biology Dept., The George Washington University, Washington DC, 20052 E-mail:tigli@gwu.edu.

2008 TASSA YOUNG SCHOLARS TRAVEL GRANT RECEIPT**Computation of Ag-Cu Metastable Phase Equilibria and Interfacial Driving Force for Nonequilibrium Solidification Problems**

Selis ÖNEL¹ and Teiichi ANDO²; ¹Hacettepe University, Beytepe, Ankara, TR-06532; ²Northeastern University, Boston, MA 02115 .

Biometric Template Security: An Overview Yagiz SUTCU, Electrical and Computer Engineering Dept., Polytechnic University, Brooklyn, NY, USA Nasir Memon; Computer and Information Science Dept., Polytechnic University, Brooklyn, NY, USA.

Risk-Adjusted Sequential Probability Ratio Tests and Cumulative Sum Charts for Binomial Probability Convolutions and Heterogeneous Binary Data Aysun Taseli, James C. Benneyan PhD, Mechanical and Industrial Engineering, Northeastern University Boston MA 02115.

Proportions, Estimated Rates, and Weight-Restrictions in Data Envelopment Analysis Mehmet E. Ceyhan, Aysun Sunnetci, James C. Benneyan PhD; Mechanical and Industrial Engineering, Northeastern University Boston, MA 02115.

Investigation Of The Velocity And Pressure Fluctuations Distributions Inside The Turbulent Horseshoe Vortex System Around A Circular Bridge Pier Gokhan Kirkil and George Constantinescu, The University of Iowa, Iowa City, IA, 52242.

Monte Carlo Risk Analysis of HiPco SWNT Manufacturing Process under Uncertain Occupational Risk and Regulations

Zeynep D. Ok, Jacqueline A. Isaacs, James C. Benneyan
Mechanical & Industrial Engineering, Northeastern University
Boston, MA 02115.

Structural Health Monitoring: Current Research Activities and Future Directions Mustafa Gul¹ and F. Necati Catbas²

¹PhD Candidate, University of Central Florida, Orlando, FL, 32816 1 mgul@pegasus.cc.ucf.edu ²Assistant Professor, University of Central Florida, Orlando, FL, 32816 2catbas@mail.ucf.edu

HEALTH AND BIOMEDICAL SCIENCES

α - Difluoromethylornithine Sensitize the Rat Prostate Cancer Cells Against Olomoucine II and Bohemine Treatment Narcin Palavan Unsal, Elif Damla Arisan Istanbul Kultur University, 34156, Istanbul-Turkey.

Effects Of Risperidone And Olanzapine On Frontal And Temporal Cortical Function And Fmri Activation In Schizophrenia Aysenil Belger^{1,2}, Joshua Bizzell^{1,2}, Richard Keefe³, Robert M. Hamer^{1,4}, Rajendra Morey^{2,3,5}, Fredrik Jarskog⁶, Robert McClure¹, Jeffrey A. Lieberman⁶. 1. Department of Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA. 2. Brain Imaging and Analysis Center, Duke University, Durham, NC USA 3. Department of Psychiatry, Duke University, Durham, NC, USA. 4. Mental Illness Research Education and Clinical Center, Durham VA Medical Center, Durham, NC USA 5. Department of Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA. 6. Department of Psychiatry, College of Physicians and Surgeons, Columbia University, New York, NY, USA.

Perchlorate, Nitrate, Thiocyanate And Iodide Levels In Chicken Feed, Water And Eggs From Three Farms Aysel Ozpinar^{1*}, Benjamin C. Blount^{2*\$}, K. Udeni Alwis², Jerry R. Gillespie¹, ¹Western Institute for Food Safety and Security, University of California, Davis, CA 95616 ²Division of Laboratory Sciences, Centers for Disease Control and Prevention, 4770 Buford Highway NE, Mail Stop F47, Atlanta, GA 30341 USA * A. Özpinar and B Blount are co-first authors and contributed equally to the research.

TGF- β 1 Released by PLGA Microspheres Enhance Chondrogenesis in Synovial Cells Bahar Bilgen, Ana Jaklenec, Edith Mathiowitz, Roy Aaron, Deborah McK Ciombor Department of Orthopaedics, Brown University Center for Restorative and Regenerative Medicine, Providence VA Medical Center and Brown University, Providence, RI 02903.

Discovery of Drug Compounds Targeting Metastatic Breast Cancer Cells Generated via Inhibition of E-cadherin Tamer T. Onder^{1,2}, Piyush B. Gupta³, Eric S. Lander^{1,2,3} and Robert A. Weinberg^{1,2} (1) Whitehead Institute for Biomedical Research, Cambridge, MA 02142 (2) Massachusetts Institute of Technology, Cambridge, MA 02139 (3) Broad Institute of MIT and Harvard, Cambridge, MA 02142.

Printing A 3D Bladder Tissue Syed K Hasan*¹, SangJun Moon*¹, Sohan Mikkilineni¹, Pei-Ann Lin¹, Fahim Manzur¹, Young S. Song¹, Jiro Nagatomi³, Ali Khademhosseini², Utkan Demirci^{1,2} - ¹Bio-Acoustic- MEMS in Medicine (BAMM) Laboratory, HST-Center for Biomedical Engineering, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston MA USA - ²Harvard – Massachusetts Institutes of Technology Health Sciences and Technology, 65 Landsdowne Street, Cambridge MA 02139 USA - ³Department of Bioengineering, Clemson University, 313 Rhodes Engineering Research Center, Clemson, SC 29634-0905 - Syed K Hasan MD- * Co- First Author- SangJun Moon PhD* – Co-First-Author Sohan Mikkilineni * Pei Ann Lin- High School Senior Student- Fahim Manzur-BU - Young Song PhD – Jiro Nagatomi, Ph.D., Ali Khademhosseini, Ph.D. Utkan Demirci** - Principal Investigator, BAMM Laboratory Director Corresponding author Email: udemirci@righs.bwh.harvard.edu.

Significant of Stable Dendritic Cells-T cell interactions in the differentiation of Effector T cells Balimkiz Senman¹, Sarah E. Henrickson¹, 1-Harvard Medical School, Boston, MA 02115 Ulrich H. von Andrian, Harvard Medical School, Boston, MA 02115.

Molecular Targeting of Ezrin as an Anti-Metastatic Agent Gülay Bulut¹, Elspeth Beauchamp¹, Shannon Fallen¹, Kevin Chen¹, Jeffrey A. Toretsky¹, Chand Khanna², Aykut Üren¹ 1Georgetown University School Medicine, Washington DC, 20057 2National Cancer Institute, Bethesda, MD, 20895.

The Comparison Of Reading Speed Between Visually Impaired Children And Normal Sighted Children Songül Atasavun*, Esra Akı*, Ayşe Turan** -- * Hacettepe University Physical Therapy and Rehabilitation School Ankara/ TÜRKİYE ** Health Counselor, Turkish Consulate General New York, NY, USA corresponding author: songula@hacettepe.edu.tr.

The Effect of Visual Perception Training on Children With Low Vision Songül Atasavun*, Esra Akı*, Ayşe Turan** * Hacettepe University Physical Therapy and Rehabilitation School Ankara/ TÜRKİYE ** Health Counselor, Turkish Consulate General New York, NY, USA. corresponding author: songula@hacettepe.edu.tr

The Comparison Of Mobility Levels In Children With Low Vision And Blindness Songül Atasavun*, Tülin Düger*, Ayşe Turan** * Hacettepe University Physical Therapy and Rehabilitation School Ankara/ TÜRKİYE ** Health Counselor, Turkish Consulate General New York, NY, USA corresponding author: songula@hacettepe.edu.tr.

The Results Of Visual Rehabilitation In A Cerebral Palsy Case With Low Vision *Songül Atasavun PT, MSc., **Ayşe Turan, MD *Esra Akı PT, Assoc. Prof., (*Hacettepe University School of Physical Therapy and Rehabilitation Ankara/Turkey) (**Health Counselor, Turkish Consulate General New York, NY, USA)

A Comparison Of Motor Skills In Children With Different Visual Acuity Levels Atasavun S.1, Turan A.2, Düger T.1. 1 Hacettepe University Faculty of Health Science Department of Physical Therapy and Rehabilitation 2 Health Counselor, Turkish Consulate General New York, NY, USA.

2008 TASSA YOUNG SCHOLARS TRAVEL GRANT RECEIPT

Array-CGH Analysis Of Turkish Adult All Patients Duygu Yasar¹, Ihsan Karadogan¹, Guchan Alanoglu², Bahar Akkaya¹, Guven Luleci¹, Sibel Berker-Karazum¹, Gokce A. Toruner³; 1Akdeniz University, Faculty of Medicine, Antalya, Turkey, 2Suleyman Demirel University, Faculty of Medicine, Isparta, Turkey, 3UMDNJ-NJ Medical School, Newark, NJ, United States.

2008 TASSA YOUNG SCHOLARS TRAVEL GRANT RECEIPT

Phenotypic Abnormalities In Children With Autism Heval M Ozgen^{1, 2}, Frits A. Beemer³, Raoul C.M. Hennekam^{4, 5}, and Herman van Engeland^{1, 2} - ¹Department of Child and Adolescent Psychiatry, University Medical Centre, Utrecht, the Netherlands -² Rudolf Magnus Institute of Neuroscience, University Medical Centre Utrecht, Utrecht, the Netherlands - ³Department of Medical Genetics, University Medical Centre, Utrecht, the Netherlands - ⁴Department of Pediatrics, Emma Children's Hospital, Academic Medical Center, Amsterdam, the Netherlands

⁵Institute of Child Health, Great Ormond Street Hospital for Children, University College London, London, UK - Heval Ozgen: MD Frits Beemer: Professor Raoul Hennekam: Professor Herman van Engeland: Professor, Head of the Department of Child and Adolescent Psychiatry, University Medical Centre, Utrecht, the Netherlands.

Normal Values for Phenotypic Abnormalities in School Children

Heval M. Ozgen^{1,2,3}, Johannes H.M.Merks⁴, and Raoul C.M. Hennekam⁵. 1Department of Pediatric Genetics, Emma Children's Hospital, Academic Medical Center, Amsterdam, the Netherlands. 2 Rudolf Magnus Institute of Neuroscience, University Medical Centre Utrecht, Utrecht, the Netherlands. 3 Department of Child and Adolescent Psychiatry, University Medical Centre, Utrecht, the Netherlands. 4 Department of Pediatric Oncology, Emma Children's Hospital, Academic Medical Center, Amsterdam, the Netherlands. 5 Institute of Child Health, Great Ormond Street Hospital for Children, University College London, UK. Heval Ozgen, MD; Johannes H.M.Merks, MD, PhD; Raoul Hennekam, Professor.

In vitro Antitumor Activity of Temozolomide and Celecoxib Loaded PLGA Discs Against Saos 2 and Glioma C6 Cells

N. Gozde Durmus¹, E. Bayam², S. Keskil³, D. Yucel², V. Hasirci²

¹ Boston University, Department of Biomedical Engineering, Center for BioDynamics and Center for Advanced Biotechnology, Boston, MA 02215, USA. ² METU, BIOMAT, Dept. Biological Sciences, Biotechnology Research Unit, Ankara 06531 TURKEY. ³ Bayındır Hospital, Ankara, Turkey.

Potential Pathogenetic Role of Oxidant/antioxidant System Abnormalities in Neuropsychiatric Disorders

Omer Akyol¹, Hasan Alacam¹ -- ¹ Hacettepe University Medical Faculty, Ankara, Turkey.

Therapeutic Usage of Caffeic Acid Phenethyl Ester (CAPE) in Ischemia-Reperfusion Models

Hasan Alacam¹, Omer Akyol¹, ¹ Hacettepe University Medical Faculty, Ankara, Turkey.

Lack of Association Between Glutathione Peroxidase 1 (GPX1) Genetic Polymorphism and Schizophrenia in a Turkish Population.

Ibrahim Tekedereli¹, Omer Akyol², Huseyin Yuce³, Mustafa Namli⁴, Murat Kara³, Halit Canatan^{3,5}, Halit Elyas³

¹Ataturk Education and Research Hospital, ²Hacettepe University, Ankara, ³Firat University, ⁴Elazig Mental Health Hospital, Elazig, ⁵Kuwait University, Kuwait.

The MSL3 chromodomain directs a key targeting step for dosage compensation of the Drosophila X chromosome

T. Sural², D.Kim³, S. Peng⁴, B. Li⁵, J. Workman⁵, P.J. Park⁴, S. Khorasanizadeh³, M.I. Kuroda^{1*} ¹ Harvard-Partners Center for Genetics and Genomics, Division of Genetics, Dept. of Medicine, Brigham & Women's Hospital, Boston, MA, 02115 ² Department of Genetics, Harvard Medical School, Boston, MA, 02115 ³ University of Virginia ⁴ Children's Hosp. Informatics Program, Children's Hospital, Boston, MA, 02115 ⁵ Stowers Institute *Correspondence: mkuroda@genetics.med.harvard.edu.

Direct Gap Junctional Communication Exist between Osteoblasts and Osteocytes in 3D Trabecular Bone Explants

M Ete Chan¹, B Bob Huo¹, Xin L Lu¹, Victor Chiang¹, Zeynep Ülkü^{*1,2}, Robert E Guldborg³, X Edward Guo¹

¹Department of Biomedical Engineering, Columbia University, New York, NY,10027; ²Division of Orthodontics, College of Dental Medicine, Columbia University, New York, NY, 10032; ³The George W. Woodruff School of Mechanical Engineering, Georgia Institute, Atlanta, GA,30332. * Presenting author

Assessment of Employee Health Risk Factors and Participation in Health Promotion Programs at HollisterStier Laboratories LLC in Spokane, Washington

Fevzi Akinci, Joseph Coyne, Ryan Scott

Washington State University, Department of Health Policy and Administration & Center for International Health Services & Policy, Spokane, Washington, USA.

2008 ÖMER TUNÇ TRAVEL AWARD RECIPIENT

Dynamic Optical Imaging of Spatiotemporal Neural Activity in Retina Tuba Sahin-Owens and John S. George Biological and Quantum Physics Los Alamos National Laboratory, Los Alamos, NM 87544.

Multi-Resonance Thickness Shear Mode (MTSM) Biosensor Technology for Classification of Biological Interfacial Processes

E. Ergezen and Ryszard M. Lec. School of Biomedical Engineering, Science and Health Systems, Drexel University

Oncogenic Kit Signaling And Therapeutic Intervention In Mouse Models Of Gastrointestinal Stromal Tumor

Yasemin Yozgat¹, Ferdinand Rossi¹, Imke Ehlers¹, Benedikt Bosbach¹, Narasimhan P. Agaram², Nicholas D. Socci, Agnes Viale, Darren Veach, Bayard Clarkson, Katia Manova¹, Cristina R. Antonescu^{1,2}, and Peter Besmer¹. ¹Dev. Biol. Program, Sloan Kettering Institute and ²Dept. of Pathol., Memorial Sloan Kettering Cancer Center New York, NY 10021.

Autocrine Semaphorin 3A Signaling Promotes Glioblastoma Dispersal Tugba Bagci¹, and Daniel G. Jay^{1,2} -- ¹Department of Neuroscience, ²Department of Physiology, Tufts University School of Medicine, Boston, MA 02111.

Closure Of Skin Incisions By 980-Nm Diode Laser Welding

Zeynep Dereli, Hasim O. Tabakoglu, Ozguncem Bozkulak , Murat Gulsoy. Biophotonics Laboratory, Institute of Biomedical Engineering, Bogazici University, Istanbul, 34342, Turkey.

Monochromatic Imaging with Clinical X-ray Sources Ayhan Bingölbalı and Carolyn MacDonald. University at Albany, SUNY, Albany, NY 12222.

POSTERS

Neuronal Connectivity in Tuberous Sclerosis Duyu Nie PhD, Alessia Di Nardo PhD, Ioannis Kramvis, Mustafa Sahin MD PhD * Department of Neurology, Children's Hospital, Boston, MA 02115 * Presenting author.

Derivation of Skeletal Myoblasts from Human Embryonic Stem Cells under Feeder-Free Conditions Zehra Dincer^{1, 2}, Tiziano Barberi², Michelle Bradbury², Georgia Panagiotakos², Nicholas Socci², Lorenz Studer² 1) Weill Cornell Graduate School of Medical Sciences, New York, NY, 10021, USA 2) Sloan-Kettering Institute, New York, NY, 10021, USA.

Thermal Stress Regulated NK Cell Tumor Cytotoxicity is mediated by Heat Shock Factor 1 B. Emre Dayanc¹, Julie R. Ostberg², Sanjay Bansal¹, Irwin Gelman³ and Elizabeth A. Repasky¹ 1Dept. of Immunology, Roswell Park Cancer Inst., Buffalo, NY 14263 2 Dept. of Molecular Medicine, Beckman Research Inst., City of Hope National Medical Center, Duarte, CA 91010 3 Dept. of Cancer Genetics, Roswell Park Cancer Inst., Buffalo, NY 14263.

Automated Productivity Based Schedule Animation (APBSA)

Gokhan Gelisen, Ph.D. Cand., P.E., Polytechnic University
Brooklyn, NY 11201.

2008 TASSA YOUNG SCHOLARS TRAVEL GRANT RECEIPT

Molecular Recognition via Charge Distribution A. Basak Kayitmazer, B. Quinn, D. Pink, Paul L. Dubin Department of Biomedical Engineering, Northwestern University.

NATURAL SCIENCES

A Vital Invitation; Necessary Innovation about Changing of Natural Geography and Adaptation Strategies to Prevent Damage from Its Impacts in Turkey Associate Prof. Dr. Deniz EKİNCİ Istanbul University Faculty of Letters, Istanbul, Turkey, 34459.

Geographic Information Systems (GIS) and Remote Sensing (RS) for Marine Biology Burhan Ekinici Istanbul University, Institute of Marine Sciences and Management, (Master student) Istanbul, Turkey, 34459.

Nanostructured Growth of Cobalt on Cu(775): An STM and Photoemission Study Mehmet B. Yilmaz¹ Nader Zaki¹ Shancai Wang¹ Kevin R. Knox¹ Dennis V. Potapenko¹ Jerry Dadap¹ Richard M. Osgood Tonica Valla² Peter Johnson², 1- Columbia University, New York, NY 10027 2-Brookhaven National Laboratory, Upton, NY 11973.

Systems Biology Approaches for the Analysis of the Treg

Signature Ayla Ergun, Zheng Li, James Collins Biomedical Engineering Department, Boston University, Boston, MA 02134.

Explicit Formula For The Inverse Of A Tridiagonal Matrix By Backward Continued Fractions Emrah KILIÇ TOBB Economics and Technology University, Ankara Turkey.

2008 TASSA YOUNG SCHOLARS TRAVEL GRANT RECEIPT

Studies of Methane Activation by Size-Selected Cobalt Cluster Cations, Con+ (n=2-16), Using Guided Ion Beam Mass Spectrometry Murat Citir, Peter B. Armentrout Department of Chemistry, University of Utah, Salt Lake City, Utah 84112.

Air And Ground Water Pollution In Turkish Mediterranean Coast Semra G. Tuncel a*, Nur Banu Öztaş-Emek a and Gurdal Tuncelba . Middle East Technical University, Department of Chemistry, 06531, Ankara, Türkiye - b Middle East Technical University, Department of Env. Eng., 06531, Ankara, Türkiye

The Schizophrenia and Bipolar Disorder Program at McLean Hospital Dost Öngür MD PhD, Clinical Director, Assistant Professor of Psychiatry at Harvard Medical School.

Power of Digital Storytelling in Secondary Education

Melda N. Yildiz, William Paterson University of New Jersey, Wayne, NJ 07470.

SOCIAL SCIENCES

2008 TASSA YOUNG SCHOLARS TRAVEL GRANT RECEIPT**Intelligent Energy Strategies of European Union (EU) and**

Turkey in the Innovation Frame Oguz YILDIRIM Canakkale Onsekiz Mart University, Canakkale - TURKEY; Cuneit KILIC Istanbul University, Istanbul - TURKEY.

Negotiating a Muslim Identity in American: Findings From a Mixed Methods Study Selcuk R. Sirin New York University
sirins@nyu.edu.

As A Model Of Foundation-Community And State Relations On Financial Issue: Gabele Tax Of The Jewish Community (Millet) In The Ottoman State Prof. Dr.Ali Arslan• Istanbul University, Department of History.

Fiscal-Financial Renovations In Ottoman Empire In The XVIII Century Dr. Mesut Aydiner/MSGSU.FEF. Department of History
Second period of the XVIII.

Competition Law In Turkey Assistant Prof. Dr. Tekin Memis tekinm@khas.edu.tr. T

During the Independence War of Turkish Republic: Kurd

Assistant Professor, Suat Zeyrek, Istanbul University, The Institute of the Ataturk Principles and Reforms

Foreign Capital In Banking System In Turkey Arif Yavuz University of Istanbul, Faculty of Economics, Department of Labour Economics Beyazit - Istanbul- TURKEY.

Is Real Exchange Rate Stationary For Turkey ? Evidence From The Two-Break Lm Unit Root Test Assistant Prof. Dr. Nilgün Çil Yavuz
Department of Econometrics, Istanbul University .

Month And Holy Days Effects On The Volatility Of Trade Deficit: Evidence From Turkey Nilgün Çil Yavuz* Burak Güriş** Burcu Kıran** Department of Econometrics, Istanbul University.

Private Employment Agencies : Case of Turkey Ali Kemal Sayın

University of Istanbul, Faculty of Economics, Department of Labour Economics, Beyazit - Istanbul, Turkey.

American Industrialization of the 19th Century Helped to Create a Continuously Growing Strong American State

Ihsancan Turan LHS, Edgewater, 07020, NJ, USA.

The Acquisition of Turkish Negation by Two Native Spanish Speakers Cagri Ozkose-Biyik, PhD student in Curriculum and Instruction, University at Albany, SUNY, Albany, NY 12222.

Risk Management through Derivatives Markets in Emerging Economies Ahmet K. Karagozoglu Associate Professor of Finance; Frank G. Zarb School of Business Hofstra University Hempstead, NY 11549 finakk@hofstra.edu ; N. Sila Saylak* Ph.D. Candidate in Finance Zicklin School of Business Baruch College, The City University of New York New York, NY 10010 nazli_saylak@baruch.cuny.edu.

How Online Small Groups Co-construct Mathematical Artifacts to do Collaborative Problem Solving Murat P. Çakır, Gerry Stahl
Drexel University, Philadelphia, PA 19104

Where am I? Updating Nested Spatial Memory Learned from Different Sources Reyhan Bilge & Holly A. Taylor Tufts University
Psychology Department.

Rediscovering the Spirit of Invention and Design: A Book of Automata from 13th Century Turkey Akif Kirecci, Ph.D. Assistant Prof.
Stevens Institute of Technology Hoboken NJ 07030.

The Application of Commerce in the Turkish States

Ismail Mangaltepe, Istanbul University.

POSTERS

Ataturk's Forest Farm and FDR's Experimental Subsistence Homestead Projects: Innovative Drivers for Social Transformation and Economic Growth in Early Twentieth Century

Ayşe Duygu Kacar Middle East Technical University, Ankara,

The Case Of "Hurried Child" In Different Cultures: A Dissertation Proposal Asil Ali Özdoğru, University at Albany, SUNY.

2008 TASSA YOUNG SCHOLARS TRAVEL GRANT RECEIPT

The State of Cross-Cultural Leadership Research: A Critical Review of the Literature Cüneyt Gözü Atatürk University & State University of New York at Albany.

Societal Fragmentational and Institutional Origins of Terrorism

Ali Ozdogan American University, 4400 Massachusetts Avenue. Ward Building, Washington, DC 20006.

"Exchange Rate Pass Through to Domestic Prices in Turkey: Before and After the Floating Exchange Rate Regime Change"

Zeliha Ozdogan, University of Delaware, Department of Economics Newark, DE.

Brief Introduction of TOBB Economics and Technology University

Suleyman SARITAŞ, Yücel ERCAN and Tahsin KESİCİ
TOBB Economics and Technology University,
Söğütözü Caddesi 43, Ankara, 06560 Turkey
Tel: +90-312-292 40 61, Fax: +90-312-292 40 91,
ssaritas@etu.edu.tr

TOBB Economics and Technology University (TOBB ETU) was established on July 1, 2003 and it was inaugurated on September 27, 2004 with 270 students in 3 colleges consisting of 7 departments. At present, the University has 4 colleges, 12 departments and 1665 under-graduate and 98 graduate students. Departments in College of Economics and Administrative Sciences are Management, Economics, and Inter-national Relations. Departments in College of Sciences and Letters are Mathematics, History, and Turkish Language and Literature. Departments in College of Engineering are Computer Engineering, Electrical and Electronics Engineering, Mechanical Engineering, and Industrial Engineering. Department in College of Fine Arts is Art and Design. Department of Foreign Languages serves to all of the University. There are 4 MS and 2 PhD programs in Graduate School of Natural and Applied Sciences and 1 MS program in Graduate School of Social Sciences. Currently active research center is Economic Policy Research Institute.

TOBB ETU is located at Sogutozu Avenue which is almost city center of Ankara. Campus has the following facilities with a student capacity of 3000: 57 classrooms, 24 laboratories, library (49700 bound volumes), partitionable congress center, conference and meeting halls, sports complex, Olympic swimming pool, restaurants and cafes.

Medium of teaching is in Turkish at TOBB ETU, but wide-range of foreign language programs are provided to the students. Foreign language classes are available to all students, either as a part of their degree program or as an optional extra. English Preparatory School is compulsory to all students. Proficiency assessment test is performed by ETS and passing grade is 500 TOEFL. Students elect Russian, Spanish, German or French as the second foreign language from second year onwards. Special programs in languages such as Arabic, Chinese and Japanese relating to the needs of particular subjects are also offered upon demand. The first and the only cooperative education model in Turkey is operated by TOBB ETU. The aim of the model is to give students balanced theoretical knowledge and work experience, and a spirit of entrepreneurship. The coop program has been going on successfully, and with growing support and participation of industrial and business institutions ever since it was started in 2005.

According to the report published by Turkish Higher Education Council in 2007, TOBB ETU is ranked 1st with 1.30 SCI publications per faculty, ranked 1st with 21% tuition fee income ratio to the total income, ranked 2nd with 9 students per faculty, ranked 2nd with \$24000 expenditure per student. TOBB ETU is one of the most preferred universities by students who got higher points from the central university entrance examination.

MERTlife, Inc.

MERTlife, Inc, is a life sciences company that is designing and developing a line of exciting and powerful high throughput preventive clinical genomic technologies (methods using genotyping DNA chips as the screening tool) offering rapid, straightforward, most comprehensive, lowest cost, concurrent screening of disease associated multiple gene variations.

The vision of the company is to integrate genomic medicine into mainstream medical practice with its line of products as disease focused, preventive, clinically applicable high throughput genetic susceptibility screening methods in diverse ethnic populations under the trade name of "MERT LS". MERT LS will be marketed through multiple distribution channels both foreign and domestic.

Each MERT LS Products will fill a current unanswered need in preventive and personalized medicine to assure genomic medicine which employs genotypic information from individuals to enhance the quality of medical care by presymptomatic identification of predisposition to disease, preventive intervention, and prediction of drug response and tailored gene-based pharmacotherapy and prescription of the best treatment for each patient in multifactorial disorders.

Multifactorial disorders, also called complex disorders, are common in the general population and stand for the most challenging field of medicine. Rather than being caused primarily by mutation of a single gene, these disorders are attributed to the influence of disease associated susceptibility alleles of multiple genes, and gene-environment interaction. As single genetic variations in multifactorial disorders typically have small effects (as measured in terms of odds ratios [ORs] or risk ratios, major increases in disease risk are expected only from simultaneous exposure of multiple risk genotypes.

MERTLife, Inc. was founded in 2008 by Dr. F. Cigdem Dogulu, who had worked at NIH from May 7, 2001 to January 31, 2008. Currently Dr. Dogulu is establishing its corporate identity as a pioneer in the genomic medicine field.

Dr. Dogulu received her Medical Degree from Uludag University School of Medicine, Bursa, Turkey and completed her residency in Neurology at Hacettepe University School of Medicine, Department of Neurology. She received a PhD in Clinical Neuroscience (Neuro-ophthalmology) from Hacettepe University, Ankara, Turkey. She came to United States to join the National Institute of Child Health and Human Development at NIH to receive further training in molecular biology, clinical genetics and biotechnology. During her employment at NIH she led several clinical and translational research projects as the principle investigator, applied for two inventions and received three Department of Health and Human Services, NIH, NICHD Staff Recognition Awards. She has fifteen publications in major peer-reviewed scientific journals.

INSTITUTIONAL POSTERS

Bridges of Hope Project

We are a group of committed Turkish-Americans who have come together to raise awareness and resources for nonprofit organizations that promote economic and social improvement in Turkey. We are resolved to encourage the development of new strategies to combat Turkey's societal problems with specific emphasis on support of educational projects.

One of our primary projects is to raise funds to establish libraries in Elementary Level Public Schools and Rural Public Boarding Schools throughout underdeveloped provinces of Turkey. Books teach new ideas and provide children with critical life skills. Reading influences imagination and leads to the ability to innovate. It gives children the chance to creatively influence our world in the future, and yet in many schools, children do not have access to even a single book.

We thus aim to give hope and provide the opportunity for Turkish children to pursue their education and realize their potential. We seek programs that provide equal opportunities to boys and girls and have a significant, concentrated impact in the lives of a large number of students in a particular village, neighborhood, or school.

We are calling upon you to join our group in developing projects, publicizing our cause, friend-raising as well as fundraising throughout the Turkish-American academic, professional and business communities nationwide.

In all our activities, we are committed to transparency, fairness and accountability.

Cigdem A. Acar, Esq. (President)

Mehmet N. Uca (Vice President/Corporate Secretary)

Huseyin Unver (Treasurer)

www.bridgesofhopeproject.org

* * * * *

Bridges of Hope Project, Inc. is a 501c3 tax exempt organization.

* * * * *

Creating Incentives, Providing Choices: Introducing a New Curriculum

Murat Barkan, Derek Bousé, Graeme M. Hanssen

Yasar University, TURKEY

www.yasar.edu.tr

A relatively new, private university, Yasar was established in Izmir in 2001 with four faculties (Communications, Economics & Administrative Sciences, Science & Letters, Architecture & Engineering), Vocational School, Preparatory School. Amid various challenges, a study was commissioned to make recommendations for re-structuring the university curriculum making it more student-centric.

Vision and Purpose

With its primary goal of raising academic standards, the new curriculum will provide students with a rounded, coherent common experience, while still allowing them to tailor this experience to their individual needs. The purpose is to engage them with research and creative processes, to balance aesthetic sensibility with logical reasoning, to encourage individual growth, to create a memorable "Yasar Experience".

Design

By its very design, the new curriculum encourages students to think, to decide, and to create.

It achieves the vision by providing students with tools needed for analytic thinking, and for greater orientation toward problem-solving via project-based study skills.

The Yasar curriculum will be shared all students by way of a common set of core 'foundation' courses taken over the first two years (followed by course majors). The students will thus choose from the same set of alternatives from the categories – Research, Design, Humanities, Arts, and Technology. Students will be engaged in shaping their own courses of study according to their individual requirements, assisted by academic advisors.

Endorsements

The new curriculum has been approved by the Board of Trustees, Senate, and the Higher Education Council – resulting in approval for opening of three new faculties: Law, Fine Arts, and Electronics.

National Science Foundation and Funding Opportunities

Semahat Demir, Ph.D.

Program Director
Biomedical Engineering (BME)
CBET/ENG
National Science Foundation
4201 Wilson Blvd, Suite 565
Arlington, VA 22230, USA
sdemir@nsf.gov

The National Science Foundation (NSF), established in 1950, is the premier Federal agency supporting basic research at the frontiers of discovery, across all fields, and science, engineering and education at all levels (NSF Strategic Plan, 2006). NSF supports research through competitive, merit-based review. Research supported by NSF has fueled many important discoveries and innovations, stimulating economic growth and improving quality of life and health. NSF invests in the best ideas generated by scientists, engineers and educators working at the frontiers of discovery and knowledge, and across all fields of research and education. NSF mission is to promote the progress of science, to advance the national health, prosperity, and welfare, and to secure the national defense (NSF Act of 1950). In the US President's American Competitiveness Initiative (ACI), NSF is one of the three agencies, funding innovation enabling research, whose budgets will be considered for doubling its budget over the ten years

Dr. Demir will present (1) an overview of National Science Foundation (NSF), (2) NSF's current investment areas, (3) a summary of different NSF funding opportunities including international collaborations, and (4) NSF Merit Review Criteria.

Okan University

AKADEMİK RÜYALARINIZI BİRLİKTE
GERÇEKLEŞTİRELİM

Güçlü bir gelecek için genç ve dinamik bir üniversite!
Türkiye'nin gelişmesine katkıda bulunmak amacıyla kurduğumuz ve modern bir kampusa sahip olan üniversitemiz, bünyesindeki bölümler itibarıyla, yalnızca bugünün değil, geleceğin ihtiyaçlarını da dikkate almakta; sadece yüksek nitelikli eğitim vermekle kalmayıp gençleri en donanımlı şekilde geleceğe de hazırlamaktadır.

Verdiği dil eğitimiyle doğu ve batıyı buluşturan üniversite!
Okan Üniversitesi, güçlü yabancı dil eğitimi vermek üzere, bünyesindeki iki Batı, iki Doğu dilinde Mütercim Tercümanlık bölümleri barındıran ülkemizdeki tek üniversitedir. İngilizce ve Almanca'nın yanında, Çince ve Rusça gibi, dünya ekonomisi ve siyasetine ağırlıklarını koymaya başlayan ülkelerin dillerinin eğitimini de veren üniversitemiz, öğrencilerine iş hayatında daha aranırlı olma imkanı sunmaktadır.

İş dünyasına en yakın üniversite!
Okan Üniversitesi, Türkiye'de "İş Yaşamına Hazırlık Programı"na sahip tek üniversitedir. Öğrencilerine, "İş Yaşamına Hazırlık Programı" ile ilk yıldan itibaren iş hayatını tanıtarak iş dünyasına hazırlamakta; staj ve sertifika programlarıyla yeni beceriler kazandırmaktadır. Ayrıca, Okan Holding bünyesinde ve işbirliği yaptığı diğer şirket ve holdinglerde yarı-zamanlı çalışma ve staj olanağı sunmakta; Türkiye'de ve yurt dışında iş bulmaları konusunda destek olmaktadır.

Peki ya siz? Okan Üniversitesi Ailesi'ne katılmak ister misiniz? Öğrencilerimizi geleceğe hazırlarken çok güçlü bir akademik kadro oluşturmak yönünde son derece titiz davranıyoruz. Eğitim kadromuzun üstün akademik niteliklere sahip olmalarının yanında uygulama deneyimli olmalarını da gözetiyoruz. Çünkü bizim amacımız, dünya standartlarında bilgi ve beceriye sahip, dinamik bireyler yetiştirerek ülkemizin gelişimine katkıda bulunmak. Ülkemizin geleceğini şekillendirmek üzere çıktığımız yolda bizimle birlikte ilerlemek; sahip olduğunuz bilgi birikimini ve deneyimini Okan Üniversitesi öğrencileriyle paylaşmak ister misiniz?

T: +90 216 677 16 30
F: +90 216 677 16 47
www.okan.edu.tr

İletişim Bilgileri.
Prof. Dr. Özer Ertuna ozer.ertuna@okan.edu.tr
Prof. Dr. Suat Teker suat.teker@okan.edu.tr
İşıl Okan isil.okan@okan.edu.tr

INSTITUTIONAL POSTERS

Faculty of Arts and Sciences at METU, Ankara

Osman Yavuz Ataman, Dean
Faculty of Arts and Sciences, METU, Ankara, Turkey

Faculty of Arts and Sciences of the Middle East Technical University is located in Ankara, Turkey. The faculty has the following 10 undergraduate and graduate programs:

Department of Biology
Department of Chemistry
Department of History
Department of Mathematics
Department of Molecular Biology and Genetics
Department of Philosophy
Department of Physics
Department of Psychology
Department of Sociology
Department of Statistics

In addition, the members of the faculty are involved in research activities in interdisciplinary graduate programs of METU such as Archaeometry, Biochemistry, Biomedical Engineering, Biotechnology, Micro and Nanotechnology, Polymer Science & Technology in the technical areas and also in socially oriented areas such as Eurasian Studies, European Studies, Gender & Women's Studies, Media & Cultural Studies, Middle East Studies and Science & Technology Policy Studies.

Detailed descriptions can be found at the related web pages:

<http://www.fef.metu.edu.tr/>
<http://www.fbe.metu.edu.tr/ENGLISH/index.php>.
<http://www.sbe.metu.edu.tr/>

The Faculty of Arts and Sciences of METU, having contemporary and dynamic teaching and research programs, is in need of young and active faculty members. Candidates who are able and willing to undertake an active university career for both research and teaching are encouraged to contact the Dean of the Faculty who will be presenting this poster during the TASSA meeting, 2008, as well as the related Department at METU for further information.

2008 TASSA YOUNG SCHOLARS TRAVEL GRANT RECIPIENTS



Engineering & Applied Sciences

Arda Kurt
Ohio State University

Selis Önel
Hacettepe University

Health & Biomedical Sciences

Tuba Şahin (Ömer Tunç Award)
Los Alamos National Laboratory

Duygu Yaşar
Akdeniz University

Heval Özgen
University Medical Center, Utrecht

Natural Sciences

A. Başak Kayitmezer
Northwestern University

Murat Çıtır
University of Utah

Social Sciences, Arts and Humanities

Oğuz Yıldırım
University of Central Florida

Cüneyt Gözü
University of Massachusetts

ABOUT TASSA

Turkish American Scientists and Scholars Association (TASSA) is an independent, non-profit and non-political organization established in June 2004 in Washington, DC. TASSA's first Board was officially seated on February 18, 2005, after the announcement of the results of the elections. We appreciate the contributions of countless individuals who spent their valuable time and efforts in bringing TASSA to this point. We have come a long way in a rather short time, yet a lot remains to be accomplished, and as before, this can only be achieved with the combined efforts of all of us.

Vision: TASSA's vision is to build a sustainable science bridge between the U.S. and Turkey. This bridge would facilitate the flow of people (scientists and scholars), knowledge, and technology and help link science and technology institutions in the two countries.

TASSA BOARD OF DIRECTORS

Executive Committee

President Banu Onaral, Ph.D.

Past-President Süleyman Gökoğlu, Ph.D.

President-Elect Ayşenil Belger, Ph.D.

Executive Director Aylin Sagay, M.S.

Treasurer Refik Soyer, Ph.D.

Executive Associate Nil Karabulut, M.S.

Technical Groups

Engineering and Applied Sciences Technical Group
Numan Doğan, Ph.D.
Murat Eron, Ph.D.
Metin Sitti, Ph.D.

Health and Biomedical Sciences Technical Group
Murat Çokol, Ph.D.
Semahat Demir, Ph.D.
Murat Öz, Ph.D.

Natural Sciences Technical Group
Selçuk Cihangir, Ph.D.
Kenan Gündoğdu, Ph.D.

Social Sciences and Arts & Humanities Technical Group
Uğur Aker, Ph.D.
Ali Özdoğan, Ph.D.
Sezer Ülkü, Ph.D.

Student Representative Hasan Ayaz, M.Sc.

Standing Committees

Bylaws & Elections Committee Alkan Dönmez, Ph.D.
Chair

Membership Committee Chair Hande Özdinler, Ph.D.

Supporting Committees

I.T. Committee Chair
Annual Conference
Committee Chair

Yalçın Sert, M.Sc.
Mehmet Toner, Ph.D.

Auditors

Ahmet Çelik, Ph.D.
Cemal Ekin, Ph.D.
Hürriyet Ok, Ph.D.

TASSA 2008 GENERAL ASSEMBLY

Sunday, April 13, 2008

8:30am - 9:00am

**The Joseph B. Martin Conference Center
Harvard Medical School
77 Avenue Louis Pasteur
Boston, MA 02115**

Meeting Agenda:

Presentation of the TASSA 2007 Activity Report

Presentation of the TASSA 2007 Financial Report

Approval of TASSA 2007 Activity and Financial Reports

TASSA 2007 Activity Report

The Executive Committee of TASSA hereby presents to the membership for its approval a summary of TASSA programs and activities in 2007. The report covers the period between January 1 and December 31, 2007.

In a nutshell, we are happy to report that the organizational and financial health of TASSA is well and its future looks bright. TASSA has continued to gain more respect of many reputable institutions for science and technology (S&T) and for policy-making, both in North America and across the Atlantic. While the quality and quantity of TASSA activities have lived up to the expected standards, it is noteworthy that TASSA closed its year-end balance sheet with a net surplus of more than \$40K, corresponding to an increase of 60% on its accounts (see the Financial Report for details).

The programs and activities highlighted below are not in any order of priority, nor are they necessarily given chronologically. Though they constitute a tangible list of potential landmark activities and major accomplishments, there were many other invisible efforts and unmentioned groundwork behind the scenes which have earned TASSA the reputation it deserves today.

U.S. – Turkey Science Bridge: In accordance with its vision to build sustainable science bridges between the U.S. and Turkey, TASSA has undertaken and been involved in the following list of activities in 2007:

- H.E. Nabi Sensoy, the ambassador of Turkey to the U.S., and H.E. Ross Wilson, the ambassador of the U.S. to Turkey, were the honorary speakers at the TASSA Annual Conference (TASSA'07) at Yale University in March 2007. Their opening remarks one after the other provided ample and substantive evidence for the commitments of both countries to promote S&T cooperation. It was made clear that their presence was a meaningful tribute to this vision and understood to be much more than a symbolic and ceremonial obligation.
- TASSA has continued its collaborative relationship with TUBITAK, the Scientific and Technological Research Council of Turkey, by inviting them to participate at TASSA'07. TUBITAK took part on a panel entitled "U.S. – Turkey Academic Networks: Individual Experiences" and informed TASSA members about the funding opportunities for scientific research of the European Union (EU) 7th Framework Programme (FP7).
- TASSA has prepared a draft document describing the specific funding opportunities from TUBITAK for Turkish-American scientists working primarily in the U.S. and interested in collaborations with researchers in Turkey. Our experience from two previous TASSA-TUBITAK workshops held in Turkey and the feedback received from the North American participants were incorporated into this document and will be made publicly available soon.
- TASSA has established a Nanobiotechnology Task Force (NBT) under the leadership of Prof. Selim Unlu from Boston University. Their goal is to coordinate the efforts of Turkish scientists involved in nanobiotechnology research in the U.S. and to link science and technology institutions in the two countries for the flow of people, knowledge, and technology. Three members of the NBT have already been awarded by the National Institutes of Health on their joint proposal led by Prof. Hur Koser (Yale U.). Prof. Unlu has also represented TASSA as an invited speaker at a special symposium organized by Suleyman Demirel University in Isparta on 14-16 November, 2007.
- TASSA was invited to speak at the EU FP7 Mobility Summit that was held at TUBITAK in Ankara on Nov. 26-27, 2007. Mr. Levent Yanik, former TASSA Executive Director, represented TASSA at the conference and gave a presentation.
- TASSA President Suleyman Gokoglu and President-Elect Banu Onaral were interviewed by the Bilgi Cagi magazine in its May 2007 issue where they shared their views on how the Turkish diaspora can contribute to R&D in Turkey.
- In June 2007, TASSA President-Elect Banu Onaral was an invited participant in a conference organized by the American Business Forum in Turkey. The theme of the conference was "Building Value: Creating an Environment for Innovation and Change," and Dr. Onaral gave her presentation in the session focusing on "The Human Factor."
- Dr. Norman Neureiter, Director of AAAS Center for Science, Technology & Security Policy and former Advisor to the U.S. Secretary of State for Science and Technology (S&T), gave an invited lecture at Hacettepe University in Ankara on October 25th, 2007. Hacettepe Rector Tuncalp Ozgen met Dr. Neureiter for the first time at TASSA'06 where Dr. Neureiter was an invited speaker on the panel about U.S.-Turkey S&T collaboration. Dr. Neureiter volun-

- teered to emphasize TASSA as a great instrument for promoting more S&T cooperation between the two countries.
- TASSA was involved in the development of draft legislation on R&D in Turkey and presented its views to the relevant authorities. The law has recently passed in the Turkish Parliament.
 - The recently expired S&T agreement between the U.S. and Turkey is being revised for renewal. TASSA was involved in the development of a draft for the government of Turkey and provided feedback to the relevant authorities.

Governance: The workload of the Executive Committee has continued to be very heavy in the absence of any dedicated professional staff. The challenge of TASSA's governance over a not-so-user-friendly Web site is well recognized by all Board members. Active remedial steps are currently being taken to sustain the health and longevity of TASSA. The following is a sample of items - mostly administrative - TASSA has handled over the past year:

- TASSA officially heard from the Internal Revenue Service confirming its tax exempt status as a 501 (c) 3 type charitable organization. This determination was made effective since August 2006.
- TASSA General Assembly was held at TASSA'07 during a specially allocated session on March 24, 2007. The TASSA 2006 Activity Report and the 2006 Finance Report as well as the associated Auditors' Report were officially presented to and approved by the membership. During the second part of the Assembly, which was conducted in an open forum format, several TASSA committees presented their ongoing activities and plans for the future, and were available to answer questions from all attendees.
- During 2007, the Board of Directors (BoD) conferred to add Prof. Daron Acemoglu into TASSA's roster of honorary members. TASSA made the official announcement and presented a plaque to Dr. Acemoglu during TASSA'07 right after he delivered his keynote address. TASSA also regrets deeply the loss of Prof. Erdal Inonu, one of the first honorary members of TASSA, in 2007.
- TASSA intends to develop and use a new Web site for addressing many strategic, informational, organizational, and communication issues. Such a site will allow for better communication with the members and better use of the information TASSA collects and maintains about its members while presenting a strong institutional brand. TASSA also views this project as more than a Web site development project. It will allow for making the information available with much greater ease by using state-of-the-art internet technologies. So far, TASSA has selected a vendor and officially signed a contract to re-design and develop the site. This is a major undertaking led by the TASSA I.T. Committee. The new Web site is scheduled to be announced during TASSA'08 and will be in service right after.
- TASSA sent a response letter to Nature magazine regarding a news article titled "Turkish physicists face accusations of plagiarism," published in the 6 September 2007 issue. More details are posted on our Web site in the Forum area.
- A special online TASSA General Assembly was conducted in December 2007 during which elections were held which replaced a portion of the positions on the BoD. The newly elected members of the Board have started their terms effective January 1st, 2008. We thank all departing BoD members for their hard work and congratulate the new members who have joined.
- Aysenil Belger-Arcasoy is the newly elected President-Elect of TASSA whose two-year presidency will begin on January 1, 2010. Prof. Belger-Arcasoy works currently at the Departments of Psychology and Psychiatry, University of North Carolina, besides her adjunct appointments at the Department of Radiology and at the Brain Imaging and Analysis Center, Duke University School of Medicine.

Annual Conference: Annual conferences provide a major platform through which TASSA fulfills one of its key missions, namely, to facilitate the advancement of science in Turkey and the U.S. through scientific exchange and increased networking. TASSA held its third Annual Conference at Yale University in New Haven, CT, on March 24-25, 2007, with over 300 prominent scientists and scholars attending from both countries. H.E. Nabi Sensoy, Turkish Ambassador to the United States, and H.E. Ross Wilson, American Ambassador to Turkey, gave the opening remarks. Prof. Cemal Kafadar from Harvard University was the keynote speaker of the first day, and Prof. Daron Acemoglu from MIT was the keynote speaker of the second day. Key policy making organizations such as TUBITAK, the National Science Foundation, and the National Innovation Initiative in Turkey participated with respected representatives on various panels. More than 70 posters were presented and TASSA provided travel grants to 12 poster presenters to enable their attendance. As soon as TASSA's Board decided to hold the next Annual Conference at Harvard University on April 11-13, 2008, an official conference organizing committee was established and started their work for the necessary arrangements.

GENERAL ASSEMBLY

Annual Conference Proceedings: The proceedings of the 2007 Annual Conference was published in hardcopy and is also electronically posted on our Web site. The contents of the proceedings include the write-ups of keynote lectures, summaries of individual sessions, abstracts of the poster presentations, lists of conference sponsors and TASSA institutional members and some samples of the memorable photographs taken at the conference.

Partnerships: TASSA has been planting the seeds of various productive collaborations with other organizations on mutual areas of interest. Besides the established collaborations with TUBITAK mentioned above, the following is a sample of the newly started partnerships:

- **National Innovation Initiative in Turkey (UIG):** TASSA's positive interactions with UIG led to a special session during TASSA'07 during which UIG presented their findings and specific recommendations of their extensive study on the subject in Turkey and discussed how this study relates to and impacts the scientific and technological progress in Turkey within a global context. TASSA's collaboration with UIG will also continue during TASSA'08 where a joint panel on innovation will be organized.
- **Turkish Academy of Sciences (TUBA):** The agreement which has been developed between TASSA and TUBA includes, as a first step, to bring together the accomplished young scientists recognized by both organizations in both countries. The initial efforts will concentrate on identifying the scientists in specific theme areas (e.g., nanotechnology, energy, bioethics and stem cells) and creating proper platforms for them to interact and collaborate. There will be a joint symposium during TASSA'08 where the subject of "innovation in healthcare solutions" will be discussed.
- **Turkish American Business Connection (TABC):** TASSA and TABC have supported and been sponsors of their respective annual conferences in past years. Our initial efforts have culminated in organizing the first joint session during TASSA'08 under the theme of "managing and financing innovation."
- **Turkish Coalition of America (TCA):** A joint workshop during TASSA'08 on "innovation in grassroots politics" will be the first of many planned collaborations in the future. TCA has been a consistent sponsor of TASSA annual conferences.
- **Institute of Turkish Studies (ITS):** A joint workshop during TASSA'08 on "financing innovation" will be the first of many planned collaborations in the future. ITS has been a consistent sponsor of TASSA annual conferences.
- **Turkish Industrialists' and Businessmen's Association (TUSIAD-US):** TASSA and TUSIAD-US hold joint regional meetings in support of a TUSIAD initiative entitled "Discover Corporate America." TUSIAD-US has been a consistent sponsor of TASSA annual conferences.
- **Scientific American Magazine:** After contributing in the publication of a 19-page special section entitled "Turkey the Bridge" in the January 2007 edition of the Scientific American, TASSA continued a productive relationship with the magazine which led to the participation of the editor-in-chief John Rennie at TASSA'07. Scientific American was also a diamond-level sponsor of TASSA'07.
- **Institutional Members and Sponsors:** Many Turkish and American Universities have become institutional members of TASSA and many public and private organizations have sponsored TASSA annual meetings as a demonstration of their interest in partnership. We appreciate their support and thank them.

Membership: The number of people who voluntarily registered to TASSA through its online system has reached 2300 at the end of December 2007. However, less than 15% of them are dues-paying members, making it an area requiring immediate attention and improvement. On the other hand, TASSA was successful in recruiting 12 institutional members at various levels in 2007 despite the fact that the establishment of such a membership category is brand new.

In summary, TASSA has accomplished a great deal in the brief period of its existence. It is being recognized by many people as an organization that undertakes new initiatives, that undersigns path-breaking activities, and that establishes first-ever connections and joint collaborations. It is a thriving organization aiming towards a more productive future with fruitful results. We urge you to get more actively involved in TASSA programs and activities, and to support your flourishing, precious organization.

Respectfully,
Suleyman Gokoglu, Ph.D.
Past-President, TASSA

TASSA 2007 FINANCIAL REPORT

2007 Income Statement

Income

Membership income	\$13,320.00
Interest income	\$1,676.24
Institutional Membership	\$24,000.00
Conference registration	\$6,355.00
Sponsorship	\$62,005.00

Total income **\$107,356.24**

Expenses

Administrative expenses	\$2,632.02
Conference expenses	\$35,026.10
Grants	\$2,250.00
Printing + Mailing expenses	\$4,257.60

Total expenses **\$44,165.72**

Operating Income 2007 **\$63,190.52**

Membership Income January 1-December 31, 2007

Regular at \$75	137	\$10,275.00
Student at \$25	98	\$2,450.00
Overseas at \$35	17	<u>\$595.00</u>
Total		<u><u>\$13,320.00</u></u>

This financial report, covering the period starting from January 1, 2007, until December 31, 2007 is hereby submitted by the Executive Committee for the approval of TASSA membership.

Respectfully,



Refik Soyer
Treasurer, TASSA

TASSA 2007 Cash Account

Checking Account

Opening Balance 1/1/2007	\$5,144.68	
Deposits	\$99,981.18	
Withdrawals	-\$40,580.51	
Balance 12/31/2007		\$64,545.35

Cash Receipts and Disbursements

Receipts	\$815.00	
Disbursements	-\$815.00	
Petty cash	-\$270.21	
Balance 12/31/2007		-\$270.21

Petty Cash in Hand	\$270.21	\$270.21
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PayPal Account

Balance as of 12/31/2007	\$2,113.61	
		\$2,113.61

Yale University Conference

In-kind donation	\$2,500.00	
Expense disbursement	-\$2,500.00	
		\$0.00

Savings Account

Opening Balance 1/1/2007	\$15,365.93	
Interest	\$154.37	
Balance 12/31/2007		\$15,520.30

Money Market CD

Opening Balance 1/1/2007	\$51,234.15	
Interest	\$1,521.87	
Balance 12/31/2007		<u>\$52,756.02</u>

Total Cash as of	<u>\$134,935.28</u>
12/31/2007	

Auditor Report for FY 2007

April 11, 2008

Ref: Auditor Opinion on 2007 financial statements of TASSA

Dear TASSA Members,

As elected TASSA Auditors, we performed our audit work through teleconferences and email communications with TASSA Treasurer Refik Soyer and by going over all the financial documents provided to us in detail subsequently. All the required information for this audit was provided to us amicably and without delay.

According to our audit carried out in line with our limited duties, the annual statement of accounts complies with the relevant legal provisions. In observance of the principles of due accounting, the annual statement of accounts reflects as accurately as possible TASSA's status with regards to its finances.

As a brief summary, TASSA started 2007 with \$71,744.76 all in various bank accounts. All of its income came through its bank accounts and all of its expenses are made by official checks and its debit card, all reflected in the detailed financial tables presented to us. TASSA ended the calendar year with \$134,935.28 in its bank accounts, with a net worth increase of \$63,190.52. We duly note that this figure does not include the payment made to Yale University for the 2007 conference in the amount of \$23,421.15, lowering the actual net operating income for FY 2007.

We would like commend the Executive Committee and the Board with their fiscal responsibility since the administrative costs of TASSA was kept at a bare \$2,632.02 for the whole year, which includes fixed expenses such as web hosting and phone bills.

We found the report to be accurate and acceptable.

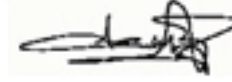

For any further questions and clarifications, please do not hesitate to contact us.

With kind regards,

A. Cemal Ekin

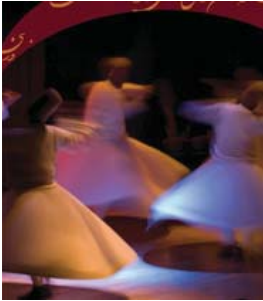
Hürriyet Ok

Ahmet Çelik



LOCAL EVENTS

LOCAL EVENTS



The Cry of the Reed

by Sinan Unel

Directed by Daniel Goldstein

3/28/2008 – 5/3/2008

Wimberly Theatre

About the Play

“Unel knows exactly where the flash points are when cultures clash.” - London Times

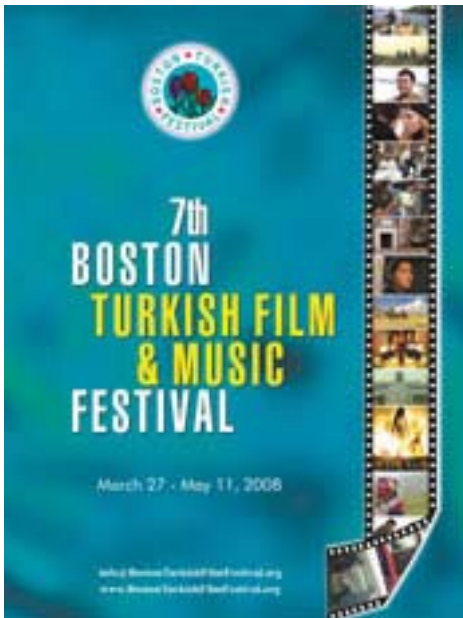
A journalist and her colleague find themselves unexpectedly “detained” by a band of insurgents as bombs rain down on a wartorn landscape. Her captors offer her one telephone call - a chance to reconnect with the mother she hasn’t spoken to in 10 years, now living in Turkey and preparing for a festival celebrating the great Sufi poet Rumi. History, religion, and the beauty of whirling dervishes collide in this powerful, ripped-from-the-headlines portrait of a world at war.

Sinan Unel’s plays have been produced in New York, Boston, New Haven, Los Angeles, London, Germany, and Austria.

A Huntington Playwriting Fellow, he is the winner of the John Gassner Memorial Award, the Daryl Roth Creative Spirit Award, and the Lark Theater’s New Play Award. His other plays include Pera Palas, Tolstoy’s Den, Thalassa My Heart, and The Three of Cups.

Approximate Running Time: 2 hours and 40 minutes; including one intermission

For more information and tickets please visit <http://www.huntingtontheatre.org/>



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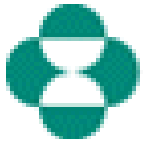
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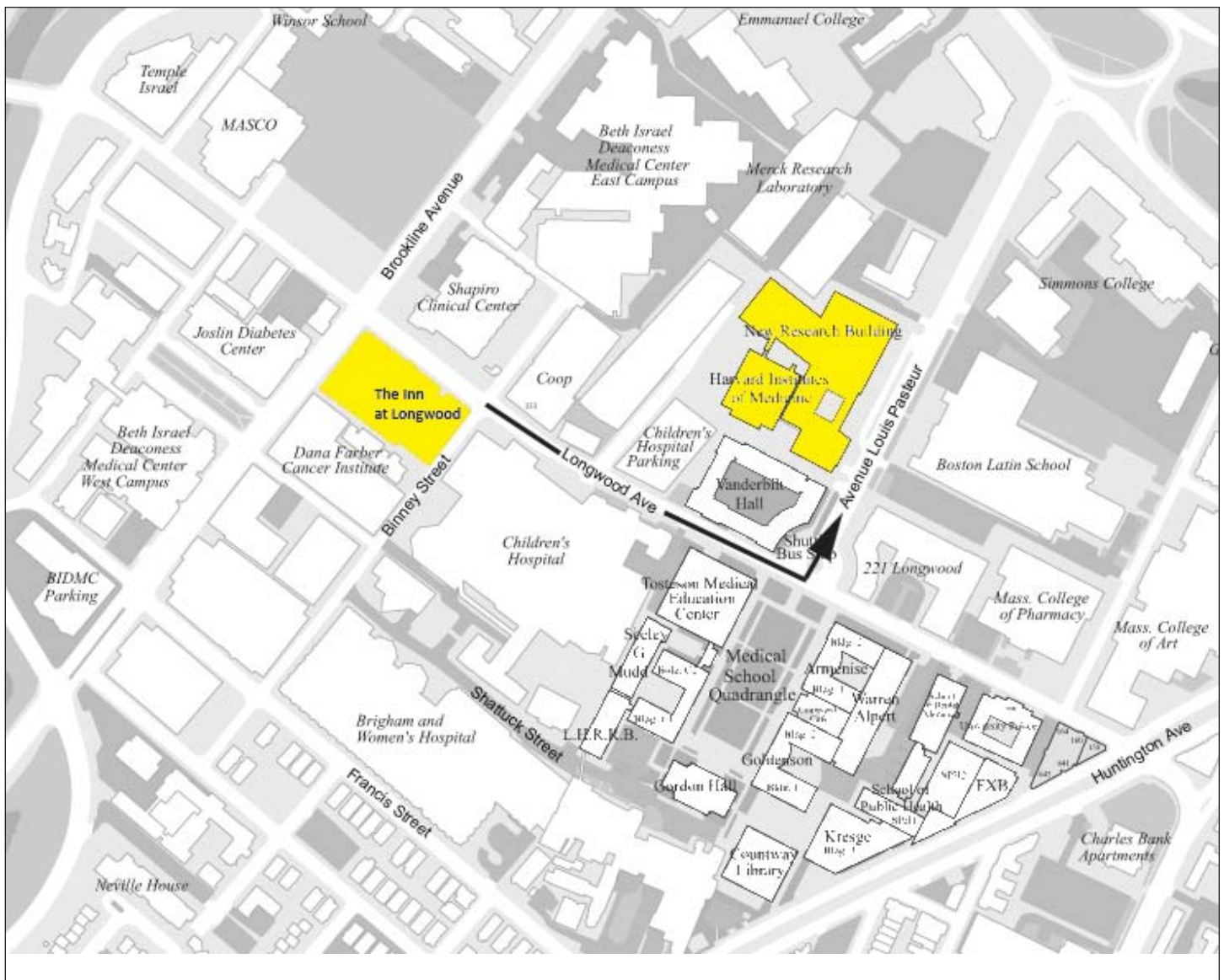
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