

**October 31, 2012 – Wednesday**

14:00 – 17:00	Registrations
17:00 – 18:00	Opening Ceremony and Speeches
18:00 – 19:00	Welcome Cocktail
19:00 – 21:30	Dinner

**November 1, 2012 – Thursday**

09:00 – 9:45

**Plenary Lecture (I):**

*Dr. Oral Büyüköztürk (Massachusetts Institute of Technology, USA), Restructuring Engineering Education Curriculum*

09:45 – 10:00

Coffee Break

10:00 – 11:00

Parallel Sessions

Hall A

**Outcomes Based Learning in Engineering Education**

*Chair: Dr. Gülhan Özbayoğlu (Atılım University, Turkey)*

**6** Program Outcomes as the Pillar of Program Accreditation: MÜDEK Experience, *A. Bülent Özgüler, M. Yavuz Erçil, A. Erbil Payzın, Bülent E. Platin*

**20** Impact of Education on Security Practices in ICT, *Atila Bostan, İbrahim Akman*

**41** The Effect of Evaluation System on Student Performances: a case study in data communication and networks course, *Seda Çamalan, Atila Bostan*

Hall B

**Pedagogical Approaches & Assessment in Engineering Education**

*Chair: Dr. Ali Ulvi Yilmazer (Ankara University, Turkey)*

**13** An Evaluation of the Effectiveness of English-Medium Civil Engineering Education in Turkey, *Oguz Gunes, Burcu Gunes, Seda Yesilmen*

**107** Success Trends of Engineering Students in Science Courses: 3 years survey, *Belgin Isgor, Yasemin Isgor, Filiz Korkmaz, Ö. Özgen, S.Ertan*

**118** Designing Contextual Problems for Making it Relevant: A Study for Freshman Chemistry Course, *Ceyhan Çiğdemoğlu, Şeniz Özalp Yaman*

Hall C

**Engineering Education and R&D Relations**

*Chair: Dr. Cem Karacal (Southern Illinois University, Edwardsville, USA)*

**77** Conducting Empirical Studies within the Scope of a Software Engineering Capstone Course, *Viljan Mahnic*

**117** A Statistical Evaluation of Civil Engineering Education in Turkey in terms of Value Engineering Concepts, *Gülçağ Albayrak, İlker Özdemir, Uğur Albayrak*

**51** Correlation among Engineering Students' Perceived Computer Self-Efficacy, Attitudes towards Technology and Academic Achievement, *Hakan Karatas, Bulent Alci, Ilyas İstif, Seyyid Gani*

11:00 – 11:15

Coffee Break

11:15 – 12:15

Parallel Sessions

Hall A

### **Educational Technologies & Distance Education in Engineering**

*Chair: Dr. Ali Kara (Atılım University, Turkey)*

**85** Using Scratch in Introduction to programming Course for Engineering Students, *Dinçer Özoran, Nergiz Ercil Çağıltay, Damla Topallı*

**42** Effectiveness and Usability of Multimedia Materials on Biomedical Instrumentation Education, *Eda Akman Aydın, Ali Hakan Işık, İnan Güler*

**29** Application of Learning Management System (LMS) in Engineering Education: MOODLE Experience at School of Engineering of Baskent, *Muhammet Yorulmaz, Mehmet Gülşen*

Hall B

### **Interdisciplinary Approaches in Engineering Education**

*Chair: Dr. Hasan U. Akay (Atılım University, Turkey)*

**89** Encouraging Engineering Students in Collaborative Research Projects, *Elif Aydın, Besim Baranoğlu*

**133** Collaboration in Intercultural student groups: Experiences from Aalborg University, *Tanveer Hussain Maken*

**134** Intercultural Communication in Student Project Groups: What It Means for Engineering Education? *Tanveer Hussain Maken*

Hall C

### **Restructuring Engineering Education Curriculum**

*Chair: Dr. Anna Friesel (Copenhagen University, Denmark)*

**32** Mechanical Engineering Education at the University of Minho, *Paulo Flores, Eurico Seabra*

**99** Balancing lab types in curriculum mix for optimal education, *Thomas Fuhrmann*

**61** A Study on Antennas and Propagation Course's Project Collaborated with Department of Management, *Sultan Can, Elif Kalaycı*

12:15 – 13:30

Lunch

13:30 – 14:15

**Plenary Lecture (II):**

*Dr. Hikmet Üçışık (Boğaziçi University, Turkey), Establishment and Advancement of a University*

14:15 – 14:30

Coffee Break

14:30 – 15:30

Parallel Sessions

Hall A

**Sustainability & Environmental Awareness in Engineering Education**

*Chair: Dr. Ali Yazıcı (Atılım University, Turkey)*

**112** Contribution of Courses to Environmental Awareness in Chemical Engineering Education: An Example at the Department of Chemical Engineering at the Faculty of Engineering of Ankara University, *Suna Ertunç, Aslı Akay, Murat Erol*

**67** Engineering Education in Sustainable Use of Water Resources, *Emin Taş, Ayşe Mollamahmutoğlu*

**69** Preparing engineering students for globalization - experiences with international project teams, *Anna Friesel*

Hall B

**Collaboration with Industry in Engineering Education**

*Chair: Dr. Bülent Özgüler, (Bilkent University, Turkey)*

**109** Industry Funded Undergraduate Research Projects as a new method for Industry-University cooperation: The example of TOFAS-Atılım, *Besim Baranoğlu, Muhammed Emin Tamer, Ali Sakin, İsmail Durgun, Omer Music, Hasan U. Akay*

**86** On the Requirements of Industry on RF and Communication Graduates: Comparison of Local/National and International Market, *Yaser Dalveren, Ali Kara*

**15** Competencies of New IT Graduates in Terms of Employer's Sector and Expectations: An Empirical Investigation, *Çiğdem Turhan, İbrahim Akman*

Hall C

**Restructuring Engineering Education Curriculum**

*Chair: Dr. Zuhal Erden (Atılım University, Turkey)*

**92** Cooperative Problem Solving as a Learning Approach in Heterogenous Classes: A Preliminary Study, *Kamil Yavuz Kapusuz, Ali Kara*

**111** Measuring Innovative Characteristics of Students in Higher Education, *Tuna Hacaloglu, Oya Deniz Beyan*

**30** Filling the Gap Between Theory and Practice in Engineering Education: A Case Study in Computer Science Courses, *Murat Koyuncu, Atila Bostan*

15:30 – 15:45

Coffee Break

15:45 – 17:05

Parallel Sessions

Hall A

### **Pedagogical Approaches & Assessment in Engineering Education**

*Chair: Dr. Murat Koyuncu (Atılım University, Turkey)*

**80** Physics Course Assessment in Engineering Education, *Filiz Korkmaz*

**68** Lessons Learned in Building a Comprehensive Assessment Process: SIUE Case Study, *S. Cem Karacal, Hasan Sevim, Vicki Scott, Denise P. Cobb*

**116** Engineering Students' Causal Attributions of Their Performance on General Chemistry Course, *Harika Özge Arslan, Ceyhan Çiğdemoğlu*

**47** Drawing distinctions: drawing assessments to measure student perceptions of diverse fields in an engineering school, *Chris Gordon*

Hall B

### **Engineering Education in Foreign Language and Its Impacts**

*Chair: Dr. Gürsoy Arslan, (Anadolu University, Turkey)*

**55** English as the Teaching Medium in Higher Education in Turkey, *Ali Ulvi Yilmazer*

**16** Channeling Student Attitudes Towards Language Learning, *Nalan Fizen Liman, Feride Guven*

**4** Professional Foreign Language for Mining Engineers in the National Mining University of Ukraine for Integration into the World Society, *Volodymyr Bondarenko, Iryna Kovalevska, Kostiantyn Ganushevych*

**100** Facilitating the transfer of ABET 2000: Developing an Outcomes-Based Skills Program for L2 engineering students in their home environment, *Robert Craig*

Hall C

### **Other Related Topics in Engineering Education**

*Chair: Dr. Halit Cenani Mertol, (Atılım University, Turkey)*

**95** Training Methods for Engineering Drawing Course, *H. Orhan Yıldırım*

**96** An Integrated e-Learning System for Engineering Education, *Abdullah Çavuşoğlu, Fatih Vehbi Çelebi, Baha Şen, Oğuzhan Menemencioğlu, Ferhat Atasoy*

**33** Deducing the Effectiveness of Course and Instructor Evaluations, *S.R. Subramanya, Mudasser Wyne*

**82** Development of a Desktop Design Setup for Mechatronics Engineering Education at Sophomore Level, *Zühal Erden, Macit Araz*

17:05 – 18:30

Free Time

18:30 – 21:30

Dinner

## **November 2, 2012 – Friday**

09:00 – 09:45

### **Plenary Lecture (III):**

*Dr. Sohyung Cho (Southern Illinois University, Edwardsville, USA)*

Test-bed used for education of both undergraduate and graduate students

09:45 – 10:00

Coffee Break

10:00 – 11:00

Parallel Sessions

Hall A

### **Innovative Instructional Methods in Engineering Education**

*Chair: Dr. Chris Gordon, (Southern Illinois University, Edwardsville, USA)*

**115** Implementation of Topic Study Activities in Engineering Education, *Damla Topalli, Nergiz Ercil Cagiltay*

**110** Enhancing Civil Engineering Education at Atılım University, *Halit Cenan Mertol*

**10** Implementation of a Teaching on Innovation Module for Engineering Programs in Turkish Aerospace Industries Internal Education Program, *Tolga Inal*

Hall B

### **Infrastructures in Engineering Education**

*Chair: Dr. A. Hakan Argeşo, (Atılım University, Turkey)*

**38** Sustainable Progress Road Map of the Faculty of Engineering at Anadolu University, *Gürsoy Arslan, Öznur Oğuzoğlu, Tuncay Döğeroğlu*

**113** Ebooks for Engineering Education beyond Post PC Revolution, *Erdem Özyurt, Alparslan Çağrı Yapıcı*

**123** Education as a Cloud Service, *Alper Ozpinar*

Hall C

### **Educational Technologies & Distance Education in Engineering**

*Chair: Dr. Ryan Fries (Southern Illinois University, Edwardsville, USA)*

**50** Integrate Educational Management Module into Moodle, *Ling Zhao, Jianhua Zhang, Jinwu Qian*

**120** Changes In The experiences of Instructors on the use of a learning Management system, *Ceyhan Çiğdemoğlu, Hasan U. Akay*

**104** User Interface Design of Oscilloscopes for Use in Virtual and Remote Laboratories, *Erdem Özyurt, Koray N. Kılıç, Ali Kara*

11:00 – 11:15

Coffee Break

11:15 – 12:15

Parallel Sessions

Hall A

### **Innovative Instructional Methods in Engineering Education**

*Chair: Dr. İbrahim Akman (Atılım University, Turkey)*

**71** How Scratch Programming may Enrich Engineering Education?, *Mehmetcan Fal, Nergiz Ercil Cagiltay*

**52** Designing an interactive application to support collaborative open-ended problem solving for precollege students, *Farshid Marbouti, Johannes Strobel*

**12** Applied-Interactive Learning in Food and Bioprocess Engineering: Computer-Assisted Food Processing Experiments, *Ferruh Erdođdu, R. Paul Singh*

Hall B

### **Women in Engineering**

*Chair: Dr. Şeniz Özalp Yaman, (Atılım University, Turkey)*

**49** Gender gap in engineering: a statistical and survey study in Turkey, *İsmail C. Yılmaz, Açelya Sazak, Deniz Yılmaz*

**79** Woman Students Situation in Engineering Faculties in Turkey, *Sultan Can, Elif Aydın, Gülsüm Nurdan Can*

**39** Person-Thing Orientation And Gender Role In Stem-Nonstem, *Ersin Uzman, Demetra Evangelou, Osman Çekiç*

Hall C

### **Collaboration with Industry in Engineering Education**

*Chair: Dr. Belgin İşgör, (Atılım University, Turkey)*

**83** CFD Aided Design of Hydraulic Turbines through University-Industry Collaboration, *Ece Ozkaya, Hasan Akin, Berat Cagri Kavurmaci, Kutay Celebioglu, Selin Aradag*

**101** Projected Summer Internships in Engineering Education : Tofaş Case, *İsmail Durgun, Mahide Sondikme*

**90** A Team-based Undergraduate Research Program, *Hasan U. Akay, Abdulkadir Erden*

12:15 – 13:30

Lunch

13:30 – 14:15

**Plenary Lecture (IV):**

*Dr. Hasan Mandal (Sabancı University, Turkey), An Important Tool for Continuous Improvement of Global Engineering Education: Mobility*

14:15 – 14:40

Coffee Break

14:40 – 15:20

Parallel Sessions

Hall A

**Innovative Instructional Methods in Engineering Education**

*Chair: Dr. İsmail Durgun (TOFAŞ, Turkey)*

**43** Engineering Students' Perspective on their Learning Experience in Higher Education: Findings from a Pilot Study, *Eurico Seabra, Paulo Flores*

**5** Implementation of Competent Approach to Formation of Structural-logical Scheme for Designing the higher Engineering Education Standards, *Volodymyr Buzylo, Volodymyr Salov*

Hall B

**Engineering Education and R&D Relations Engineering Education and R&D Relations**

*Chair: Dr. Oral Büyüköztürk (Massachusetts Institute of Technology, USA)*

**59** Best Practises of research and development projects through "R&D Innovation and Industrial Implementation Support Programme" of KOSGEB, *Hüsniye Güler, Mücahit Kaplan, Abdulkadir Vardar, Serhat Apak*

**14** Status of Higher Education in Nuclear Engineering in Türkiye and Research Activities at the ATILIM University, *Sümer Şahin, Ekin Bingöl*

Hall C

**Workshop I: Project Workshop of Engineering Students**

*Coordinator: Dr. Belgin İşgör, (Atılım University, Turkey)*



15:30 – 15:45

Coffee Break

15:45 – 16:30

**Plenary Lecture (V):**

*Ryan Fries (Southern Illinois University, Edwardsville, USA), Planning Your Class to Engage the Students*

16:30 – 16:45

Coffee Break

16:45 – 17:45

Parallel Sessions

Hall A

**Restructuring Engineering Education Curriculum**

*Chair: Dr. S.R. Subramanya (National University, USA)*

**114** Enhancement of Student Learning in Antennas and Propagation Area via Real-Life Projects, *Sultan Can, Elif Aydın*

**121** Computer Software Packages Usage in Civil Engineering Education, *Uğur Albayrak, Eşref Unluoglu*

**48** Engineering Curricula Basics According to ABET: The Paradigm for Becoming an Engineer, *Haldun Abdullah, Nükhet Sazak, Murat Yıldız*

Hall B

**Outcomes Based Learning in Engineering Education**

*Chair: Dr. Sümer Şahin (Atılım University, Turkey)*

**93** Project oriented digital engineering course for activating students, *Thomas Fuhrmann, Franz Graf*

**62** A Study on Analysis of Prerequisites and Laboratory Activities in Circuit Analysis Course, *Sultan Can, Hakan Tora*

**105** Integrating Social Network Services into Engineering Courses, *Alparslan Çağrı Yapıcı, Erdem Özyurt*

Hall C

**Poster Sessions**

**54** New Educational Technologies and Their Effect on Students Performance Theories of Architecture Lectures in the Departments of Architectural Engineering as a Model, *Rana M. Hamed, Niam. B. Mannona, Ali H. Al-Jameel*

**72** Safety Engineering Education, *Kemal Tuşat Yücel, Kübra Doğan*

**75** Quality Management, Quality Assurance and Quality Control Applications In Civil Engineering, *Kemal Tuşat Yücel, Kübra Doğan*

**103** A Software Tool for Presenting Two Mutually Referring Information In One Screen For Education, *Korhan Levent Ertürk, Gökhan Şengül, Erol Özçelik*

**132** Networking and Collaborations in Mining Engineering Education, *Gülhan Özbayoğlu*

17:45 – 20:00

Free Time

20:00 – 23:00

**Conference Gala Dinner**

**November 3, 2012 – Saturday**

10:00 – 11:00 Parallel Sessions

Hall A

**Interdisciplinary Approaches in Engineering Education**

*Chair: Dr. A. Çağrı Yapıcı, (Atılım University, Turkey)*

**102** Example of Tofaş Academy About Learning All Employees and Suppliers Work for Industry, *İsmail Durgun, Mahide Sondikme*

**40** An Interdisciplinary Trend in Engineering Education: Optimization, *Şaziye Balku*

**108** Interdisciplinary Analysis of Biomedical Engineering Departments in Turkey, *Onur Kocak, Baran I. Uslu*

Hall B

**Problems & Future Engineering and Engineering Education**

*Chair: Dr. Suna Ertunç, (Ankara University, Turkey)*

**122** Virtualization of Physical Education for Engineering Laboratory Experiments, *Alper Ozpinar, Bedir Yılmaz, Can Kucukgultekin*

**8** Marriage alamode: Best of the best worlds, *Christopher Serkan*

**73** Nanotechnology Safety-Its Importance in Engineering Education, *Nader Nabhani*

Hall C

**Workshop II: From Conventional Software Engineering to Global Software Engineering**

*Coordinator: Dr. Mehmet Karakoç, (Ege University, Turkey)*

11:00 – 11:15

Coffee Break

11:15 – 12:15

Parallel Sessions

Hall A

*Chair: Dr. Besim Baranoğlu (Atılım University, Turkey)*

Assessment of the Conference / Recommendations / Further Conference issues

12:15 – 13:30

Lunch

13:30 – 18:00

Excursion-Aspendos