TOPICAL SESSION SCHEDULE

TURKU, FINLAND / 30.7. - 3.8.2012

Tuesday 31.7.2012 13.00-14.00 / PARALLEL SESSION 1

Session	Mathematics in education	Technologies for teaching and learning	Engineering education systems	Global challenges of engineering education
Room	*Delta*	*My*	*Omega*	*Sigma*
Chair	***Gregory Baker***	***Olli Mertanen***	***Tapio Salakoski***	***Johan Lilius***
13:00-13:20	16. Päivi Porras: Profiles of Engineering Students in Mathematics	19. Albert Albers, Toan Nguyen and Norbert Burkardt: Improving Hands-On Education by Introducing a Mechanical Components Model Suitcase	83. Elina Kontio, Nina Lehtinen and Juha Kontio: A Study on Health Informatics Education in Finland	39. Dante Augusto Barone, Marcia Cançado Figueiredo, Gabriel Lamb Wink and Lucas Jardim: New challenges for engineers: design and implementation of a mobile system dedicated to improve oral health conditions
13:20-13:40	43. Catherine Skokan: Analysis of the Impact of Placing Engineering, Mathematics, and Computer Science Graduate Students in the K-12 Classroom	33. Jorge Cantero, Jose Luis Saorin, Norena Martín and Manuel Contero: Digital Tangibles Interfaces as an alternative of Tangible Models for its use in a Virtual Learning Environment in Engineering	104. Peter Bofah and Mohamed Chouikha: A Novel Approach to Introduce Research in Undergraduate Engineering Curriculum	78. Jaana Holvikivi: From theory to practice: adapting the engineering approach
13:40-14:00	113. Jennifer Czocher: Mathematical Modeling and Engineering Majors	37. Mario Leindl, Eduard Oberaigner and Marianne Mataln: A modern course in vibration of rods and beams	149. Maria Charalampidou, Spyridon Mouroutsos and George Pavlidis: Learning advanced telemetry and telecontrol systems in the laboratory **CANCELED**	215. Enrique Ballester Sarrias, Manuel Gasch Salvador, Laura Contat Rodrigo, Isabel Gasch Molina, Maria Dolores Navarro Mas and Luis Manuel Sanchez Ruiz: Implementation of a new teaching-learning system in the BEng degree in Mechanical Engineering towards its EHEA adaptation

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Tuesday 31.7.2012 14.10-15.10 / PARALLEL SESSION 2					
Session	**Business, innovation and entrepreneurship**	**Mathematics in education**	**Technologies for teaching and learning**	**Engineering education systems**	**Global challenges of engineering education**
Room	*Gamma*	*Delta*	*My*	*Omega*	*Sigma*
Chair	***Angelo Duarte***	***Catherine Skokan***	***Jose Luis Saorin***	***Updated: Elina Kontio***	***Juha Kontio***
14:10-14:30	252. Tatiana Corejova and Juraj Kavecky: Education to the Technology Entrepreneurship in Engineering Study Programs in the Slovak Republic **CANCELED**	161. Dag Wedelin and Tom Adawi: Bridging theory and practice: An inquiry-based course in mathematical modelling	52. Carlos Carbonell Carrera and Jose Luis Saorín: Spatial Data Infrastructure as learning environments for spatial skills development in engineering education	150. Tero Reunanen, Juha Valtanen and Riitta Windahl: Evolutionary Approach to Modern Creative Engineering Studies in Turku University of Applied Sciences	11. Martin Jaeger and Desmond Adair: A Student's Perception of Ethics during his Final Year Project "Ethics on a Construction Project" in the Middle East
14:30-14:50	256. Sakari Pieskä and Mika Luimula: How to Promote Innovations through Applied Research in Collaboration with SMEs?	207. Jenna Tague, Jennifer Czocher and Gregory Baker: Mathematical Literacy for Engineering Majors	93. Riku Haavisto, Johannes Holvitie, Erkki Kaila, Teemu Rajala, Mikko-Jussi Laakso and Tapio Salakoski: Designing a game mode for online learning environment	165. Jiri Jan: Differing Concepts of Biomedical Engineering Education	179. Nancy Healy and Lynn Rathbun: Developing Globally Aware Scientists and Engineers in Nanoscale Science and Engineering
14:50-15:10	269. Jerker Björkqvist, Luigia Petre, Karl Rönnholm andDragos Truscan: Integrating Innovation Driving Activities in a Master Level Project Course	254. Jim Morgan, Robert Capraro and Mary Margaret Capraro: Science, Technology, Engineering and Mathematics (STEM) Education: Methods to Improve PSAT Scores Using a STEM Focus	87. Chun-Ming Huang, Chih-Chyau Yang, Yi-Jun Liu, Chun-Chieh Chiu, Chun-Chieh Chu, Wei-De Chien, Yen-Chun Lu, Hung-Lieh Chen, Chun-Pin Lin and Chien-Ming Wu: A New Embedded System Prototyping Service for Taiwan Academia	168. Hamadou Saliah-Hassane, Maarouf Saad and Willie K. Ofosu: Smart Educational Learning Devices for Online Laboratories	216. Enrique Ballester Sarrias, Marina Puyuelo Cazorla, Laura Contat Rodrigo, Manuel Gasch Salvador and Luis M. Sanchez Ruiz: Comparative analysis of students performance in pre-EHEA and EHEA structured BEng degrees in Industrial Design Engineering

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Tuesday 31.7.2012 15.30-16.30 / PARALLEL SESSION 3					
Session	**Business, innovation and entrepreneurship**	**Global competences, accreditation and quality**	**Technologies for teaching and learning**	**Engineering education systems**	**Global challenges of engineering education**
Room	*Gamma*	*Delta*	*My*	*Omega*	*Sigma*
Chair	***Mika Luimula***	***Juhani Soini***	***Carlos Carbonell Carrera***	***Jiri Jan***	***Nancy Healy***
15:30-15:50	157. Svein Thore Hagen and Harald Hasleberg: Entrepreneurship in higher education, a successful program at Telemark University College	54. Anouk Desjardins, Évelyne Doré, Raymond Desjardins and Dominique Chassé: Technical Writing Course Designed for the Realities of an Engineer	220. Enrique Ballester Sarrias, Laura Contat Rodrigo, Juan Antonio Monsoriu Serra and Luis M. Sanchez Ruiz: E-learning: contributions from the School of Design Engineering ETSID at Valencia (Spain)	177. Luciana Coelho, Jose Grimoni and Osvaldo Nakao: Comparison of Graduate Courses in Teacher Training Schools of Engineering	50. Juha Kontio and Motomu Takeshige: Enhancing cultural awareness and mobility between Japan and Finland
15:50-16:10	171. Markus Forstén, Ari Putkonen, Osmo Eerola andTristan Robinet: Learning Strategic Management Skills with Business Simulation Game	137. Radim Farana, David Fojtík and Marek Babiuch: Team Education Support of the Technical Subjects at the Faculty of Mechanical Engineering	221. Luis M. Sanchez Ruiz, José-A. Moraño and M.-Dolores Roselló: Fitting Mathematics to EHEA in Aerospace Engineering at the School of Design Engineering ETSID in Valencia (Spain)	205. Emmanuel Glakpe and Selete Avoke: A Comparative Analysis of the Pre-Engineering Curricula of Three International Educational Systems	119. Dan Zhang, Laurie Cuthbert, Yashu Ying, Eleanor Pritchard and Steve Ketteridge: Students' Perspectives on Teamwork Learning in Engineering Education in China
16:10-16:30	218. Pasi Rajala and Matti Syrjälä: Innovations to product, co-operation between Innotools and Saimaa University of Applied Sciences	146. Tero Reunanen and Riitta Windahl: Rocketing Professional Competence of Engineering Students at TUAS (Turku University of Applied Sciences)			175. Louis Nadelson, Anne Seifert, Sandra Nadelson and Melinda Hamilton: Teaching By Design: Preparing K-12 Teachers to Use Engineering Design across the Curriculum

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Wednesday 1.8.2012 8.30-9.30 / PARALLEL SESSION 4					
Session	**Business, innovation and entrepreneurship**	**Global competences, accreditation and quality**	**Technologies for teaching and learning**	**Engineering education systems**	**Global challenges of engineering education**
Room	*Gamma*	*Delta*	*My*	*Omega*	*Sigma*
Chair	***Osmo Eerola***	***Radim Farana***	***Jukka V. Paatero***	***Hamadou Saliah-Hassane***	***Breno Carmo***
08:30-08:50	70. Michele Angelo, Nilton Dantas, Angelo Loula, Matheus Pires and Angelo Duarte: Entrepreneurship in a Curriculum Redesign of Computer Engineering	151. Kalliopi Skarli: Mapping out Global Competences: a comparative case study	94. Johannes Holvitie, Riku Haavisto, Erkki Kaila, Teemu Rajala, Mikko-Jussi Laakso and Tapio Salakoski: Electronic exams with automatically assessed exercises	226. Teemu Santanen and Sirpa Sandelin: Study course cooperation model for enterprises and SAMK - Case Offshore	65. Josef Rojter: Peeling an Onion: Marketing Engineering Courses Through New Course Pedagogy?
08:50-09:10	89. Tony Wahlroos, Juha Nurmio, Anne Norström and Jukka Kaitaranta: SUSBIO – developing the biogas process for future engineers	152. Maria Rostasova, Tatiana Corejova and Alena Chrenkova: Creation of Quality Assurance in Lifelong Learning in the Slovak Republic **CANCELLED**	97. GK Suraishkumar: Active Learning through Video Lectures	230. Petri Sainio and Seppo Virtanen: Structured Learning Journal Based Method for Lecture Courses in Engineering Education	116. Anne Donnelly, Sandra Russo, Nikki Kernaghan,Samesha Barnes and Jane Jacobi: SEAGEP science and engineering in the global context project and assessment of its effects
09:10-09:30	154. Jose Teixeira and Joni Salminen: Open-Source as Enabler of Entrepreneurship Ambitions among Engineering Students – A Study Involving 20 Finnish Startups	198. Juha Kontio, Patric Granholm, Heikki Valmu, Janne Mäntykoski, Karl Kruusamäe, Marija Aukstuoliene, Loreta Savulioniene, Peter Munkebo Hussmann and Kristina Edström: Supporting Programme Development with Self- and Cross-evaluations – Results from an International Quality Assurance Project	133. Tommi Metso and Kristiina Meltovaara: Facilitating & enhancing innovation competences and student involvement: an example of introducing real life problem solving as well as technologies to teaching product development and planning	238. Giuliano Donzellini and Domenico Ponta: Teaching Digital Design in the FPGA age	35. Janne Roslöf: Lecturers' Perspectives on the Educational Background of Engineering Students

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Wednesday 1.8.2012 9:40-10:40 / PARALLEL SESSION 5

Session	Integrating research and education	Global competences, accreditation and quality	Technologies for teaching and learning	Learning environments	Global challenges of engineering education
Room	*Gamma*	*Delta*	*My*	*Omega*	*Sigma*
Chair	***He Lingsong***	***Maria Rostasova***	***Emmanuel Glakpe***	***Domenico Ponta***	***Anne Donnelly***
09:40-10:00	59. Antti Hakkala and Seppo Virtanen: University-Industry Collaboration in Network Security Education for Engineering Students	214. R. Keith Stanfill and Susannah Howe: Roughly Right and Fast: Back-of-the-envelope Calculations for Estimation, Problem Bounding, and Design Decisions	95. Johannes Holvitie, Riku Haavisto, Teemu Rajala, Erkki Kaila, Mikko-Jussi Laakso and Tapio Salakoski: A Robot exercise for learning programming concepts	15. Liisa Kairisto-Mertanen and Olli Mertanen: Innovation pedagogy – a new culture for education	240. Marcelle Herescu, Edson L. Pereira, Giuliano S. Olguin and Patrícia H. L. S. Matai: Initiatives to promote Science & Technology careers and their impact on IT's sector and on developing countries **CANCELED**
10:00-10:20	60. Alpo Salmisto: Case Study: The Progressive Inquiry Learning Method in Course Real Estate Business and Management	255. Thyagarajan Srinivasan and David Carey: A Course in Instrumentation Automation	124. Ananda Maiti, Subhasis Mahata and Chinmay K Maiti: Low-Cost Remote Semiconductor Devices Laboratory with NI Switch	48. David Pundak and Arie Maharshak: Engineering Students' Dilemma – Work vs. Loan	261. M. Taghi Mostafavi: Engineering the Science and Engineering Education
10:20-10:40	62. Mika Jokinen, Karlo Villa and Minna Tuovinen: Towards self-steered studies by working in R&D projects	34. Tony Eng, Rudolph Mitchell and Sylvia Barsion: Assessment of Short-Term Post-Impact of Students' Learning Experience in an Oral Communication Course at MIT for EECS Majors		49. David Pundak, Orit Herscovitz and Miri Schaham: Engineering Students - Reading Habits and Fragile Knowledge	272. Sally Organ and Carol Morris: Open and Distance Learning for Engineering; Opportunities and Challenges

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Wednesday 1.8.2012 13:00-14:00 / PARALLEL SESSION 6					
Session	**Integrating research and education**	**Student mentoring and tutoring**	**Technologies for teaching and learning**	**Learning environments**	**Engineering in future society**
Room	*Gamma*	*Delta*	*My*	*Omega*	*Sigma*
Chair	***Alpo Salmisto***	***Rosetta Ziegler***	***Chinmay K Maiti***	***Liisa Kairisto-Mertanen***	***Josef Rojter***
13:00-13:20	117. Jarkko Paavola: Framework for Integration of Teaching and R&D in BSc Level Education - Case study on challenging long-term R&D effort	128. Reijo Asp and Kristiina Meltovaara: Enhancing student participation in engineering education: an alternative approach to practical work sessions	142. Tamás Molnár: Parzival meets modern architecture	51. Nikolay Mikhaylov: Virtual Development Lab: Concept, Implementation, Evaluation	76. Jyri Naarmala and Olli Mäkinen: The Age of Information and De Facto Ethics
13:20-13:40	139. Marianne Mataln, Mario Leindl and Eduard R. Oberaigner: Employment of OpenFOAM in Teaching and Research	110. María Consuelo Sáiz-Manzanares, María Jesús González-Fernández, Eduardo Montero, Fernando Aguilar and José Antonio Barón: Metacognitive knowing and solving problem: Case study on solving-problem in engineering thermodynamics	155. Helena Mälkki and Jukka V. Paatero: Promoting professional skills and holistic view in engineering education	67. Tapani Ojanperä: Enhancing Student Motivation by means of Software Programming Projects	178. Nancy Healy and Joyce Allen: Workforce Development in Nanoscale Science and Engineering - Training Teachers to Educate Future Nanoscale Scientists and Engineers
13:40-14:00	225. Jouko Lehtonen and Meiju Räsänen: Inventions as an environment for learning	120. Joseph Cocozza and Diana Sabogal: Establishing a Tradition of Mentoring	160. James Mcclellan and Gregory Krudysz: Concept-Based Tutoring System for on-Line Problem Centered Learning	71. Hanna Hänninen and Taina Hovinen: Chemical Analysis Service: Learning in Projects	249. Jyrki Laitinen and Timo Pieskä: Novel approach to organize higher education in regional units

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Wednesday 1.8.2012 14:00-15:00 / POSTER SESSION, Chair: ***Mikko-Jussi Laakso***

47. Clement Onime, James Uhomoibhi and Sandro Radicella: Issues of infrastructure and capacity building for enhancing Engineering Education in Developing Nations: A focus on Africa	96. Annika Brandt, Elina Palonen, Ville-Veikko Mäkelä,Juhani Soini, Tony Wahlroos and Rina Wahlroos: Molecular diagnostics laboratory (MDL) – collaboration between students and SMEs	126. Chandrasekar.V Chandra, Jaan Praks, Ari Sihvola, Tuija Pulkkinen and Dmitri Moisseev: Radar Engineering and Radar Meteorology Education partnership between Colorado State University, Aalto University, and University of Helsinki: An experiment in content delivery and pedagogy	167. Martin Lamos and Jiri Jan: Analysis of simultaneous EEG/fMRI data as doctoral study research	239. Ricardo de Andrade, Marcos Antonio de Carvalho Guedes, Armando Antonio Maria Laganá, Kleber Nogueira Hodel and João Francisco Justo Filho: Didactic kit for the study of CAN bus
85. Eduardo Montero, María Jesús González-Fernández, Fernando Aguilar, Fatima E. M. Alaouiand Jesús Marcos García-Alonso: The use of streaming video to support engineering student's learning in energy topics	108. J. Bryan Burrows-McElwain, I.K. Dabipi and Christopher Hartman: Integrating Human Factors Research into Undergraduate Coursework in Aerospace/Aviation: A Case Study in Pilot Cockpit Distraction by a Portable Electronic Device (PED)	138. Kari Lindström and Kristiina Meltovaara: A strategic partnership: developing a new approach to University-Industry collaboration	193. Clara de Oliveira: Pedagogical Analysis from Aalto University School of Chemical Technology at Highlights of mOT Integrative Educational Methodology	245. Vojislav Ilic: Tesla Turbine as a Student Learning Tool
86. Youngtae Lee, Hanwoo Kim and Jinsoek Park: A Study on the Development of Program Outcomes Assessment tool using Reflection Journal	115. Irina Belinskaya, Elena Ovchinnikova, Alexander Kartoshkin and Valeriy Belyakov: Ecological aspects of Russian agricultural engineering education **CANCELED**	145. Teijo Lahtinen, Arttu Salmela and Henri Koukka: Enhancing Engineering Education and University-Industry Collaboration by Simulation Tools	224. Piotr Kłosowski: Functioning and Development of Distance Education at Silesian University of Technology	Late Abstract: 114. M. J. Savelski, S. Farrell and C.S. Slater: Introducing Concepts of Life Cycle Assessment in the Chemical Engineering Curriculum through the Evaluation of Pharmaceutical Syntheses and Biodiesel Manufacturing
88. Tony Wahlroos, Jarno Pusa, Anna Sulkakoski andNiina Punelpuro: The lab of courage: student participation in business projects	123. Insook Kim, Dongchoul Kim and Juho Kim: Effective Teaching Methods for Capstone Design Courses : Case study	156. Kristiina Meltovaara and Juha Leimu: Facilitating innovation competences: Integrating business and engineering	227. He Lingsong, Wu Bo and Zhou Liping: Mechanical Engineering Practice Educational Center Operating by both University and Industry	

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Wednesday 1.8.2012 15:00-16:00 / PARALLEL SESSION 7					
Session	**Integrating research and education**	**Student mentoring and tutoring**	**Technologies for teaching and learning**	**Learning environments**	**Curriculum design**
Room	*Gamma*	*Delta*	*My*	*Omega*	*Sigma*
Chair	***Jouko Lehtonen***	***Eduardo Montero***	***Phil Picton***	***Peter Willmot***	***Larissa Fradkin***
15:00-15:20	229. Eusebio Jiménez López, Víctor Martínez Molina,Cristhian Ramón Uzeta Obregón, Saúl René Ontiveros Moroyoqui, Luis Andrés García Velázquez, Gabriel Luna-Sandoval, Luciano Vela Martínez and Juan Delfín Vázquez: About a systematization of the design process of original equipment	131. Azizan Zainal Abidin, Rosetta Ziegler and Raija Tuohi: Discovering the learning styles of engineering and non-engineering students	194. Outi Laitinen, Seppo Kuikka and Pekka Alho: The automation engineering students' knowledge development in a simulated work environment	90. George Gibbon: The "Knows" and "Doing" in Engineering Education	55. Josef Rojter: Contextualizing Fundamental Sciences into Engineering Curriculum
15:20-15:40	263. Galeno José Sena, Marco Aurélio Alvarenga Monteiro, Leonardo Mesquita, Maria Cecília França De Paula Santos Zanardi, Fábio Esteves Silva and Carlos Eduardo Da Silva Amorim: Engineering Students Involved in Activities to Motivate High School Students for Engineering Courses	162. Anja Hänninen, Tomi Ylikorpi and Aarne Halme: Best Practices for Efficient Student Tutoring	233. Breno Carmo and Renata Pontes: Web 2.0 and Collaborative Learning: An Application on Industrial Engineering Course	21. David Barbe: Residency Programs for Entrepreneurial Undergraduate Engineering Students	79. Hans Schjær-Jacobsen, Imad Abou-Hayt, David Ashworth, Marc Podzimski Jensen and Mads Peter Schreiber: Industrial Design as an Innovative Element in Engineering Education
15:40-16:00					

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Friday 3.8.2012 08:30-09:30 / PARALLEL SESSION 8				
Session	**Student mentoring and tutoring**	**Technologies for teaching and learning**	**Learning environments**	**Curriculum design**
Room	*Delta*	*My*	*Omega*	*Sigma*
Chair	***M. S. Stachowicz***	***Aulikki Holma***	***George Gibbon***	***Clara de Oliveira***
08:30-08:50	190. Sonya Coleman, Anne Hinds, Eric Nichols and Heather Sayers: Improving First Year Retention in Computer Science by Introducing Programming in Schools	200. Lars Reng: Development of an Artificial Intelligence Programming Course and Unity3d Based Framework to Motivate Learning in Artistic Minded Students	91. Osmo Eerola: "My best course in engineering" - Developing a course in project planning and requirements engineering for undergraduate students	40. Jorma Nevaranta: Teaching Strategy as a Modular Service Product in Comprehensive Course Development
08:50-09:10	202. Marcos Borges, Victor Bicalho, Daiane Rampinelli and Ciro Sobrinho: Project-based learning: the SAE Aero Design experience	236. Phil Picton: Teaching ultrasonics using spreadsheets	130. Merja Mäkelä and Maija San: Energy engineers through distance learning - Cooperative teaching and learning approaches	66. Tokio Abe: A Curriculum Improvement of MIS Course in College
09:10-09:30	25. Aharon Gero: Outstanding Female High School Pupils' Perception of Electrical Engineering – What Has Changed?	244. Klaus Wuersig: Selection of appropriate Programming Languages for Engineering Applications	140. Peter Willmot, Michael Bramhall and Keith Radley: An academic's toolkit for innovative project reporting using audio visual media.	92. Claudia Daems: A Bridge between Engineering and Language Learning: Automation and German in an Online Course

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Friday 3.8.2012 09:40-10:40 / PARALLEL SESSION 9				
Session	**Assessment of learning outcomes**	**University-industry collaboration**	**Learning environments**	**Curriculum design**
Room	*Delta*	*My*	*Omega*	*Sigma*
Chair	***Juha Leimu***	***James Uhomoibhi***	***Sebastien Lafond***	***Claudia Daems***
09:40-10:00	61. Taru Penttilä, Liisa Kairisto-Mertanen and Adam Jagiello-Rusilowski: Validating social competencies as learning outcomes of innovation pedagogy –experiences in Finland and Poland	58. Seppo Niemi, Pekka Nousiainen and Mika Laurén: Skilled engineers through internal combustion engine research	141. Patrick Purcell: Innovations in the Civil Engineering curriculum at University College Dublin	173. Ville Taajamaa and Kati Vilonen: The future of engineering education?
10:00-10:20	82. Elena Trotskovsky, Nissim Sabag, Shlomo Waks and Orit Hazzan: Student Achievements in Solving Problems Using Models in Electronics	166. Daniel Bailey and Jonathan Adams: Northants Engineering Training Partnership (NETP), a model for sustainable, Industry - University Engagement	204. Marcos Antonio de Carvalho Guedes, Felipe Serafim Albaladejo, Armando Antonio Maria Laganá and João Francisco Justo Filho: Didactic kit for the study of intake air system in internal combustion engine	174. Roelof van Silfhout, Ian Cotton, Bruce Grieve,Alexander Lanzon, Alasdair Renfrew and Andrew Gibson: Introduction of student initiated and themed multi-student projects
10:20-10:40	106. Ibibia Dabipi, Christopher Hartman and J. Bryan Burrows-McElwain: Design of a Picavet System that Supports a Remotely Controlled Pan and Tilt Digital Camera Equipment	192. Timo Poranen, Toni Pippola, Matti Vuori, Ville Kairamo and Jarmo Tuominiemi: Teaching innovation projects in universities at Tampere	176. Walnorio Ferreira, Diogo Rossi, Vitor Gonçalves and Augusto Badke-Neto: Pedagogical approach for the Structural Stability	185. Larissa Fradkin: Issues surrounding teaching pre-calculus to engineering freshers

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Friday 3.8.2012 11:00-12:00 / PARALLEL SESSION 10				
Session	**Assessment of learning outcomes**	**University-industry collab. & Curriculum Design**	**Multicultural engineering and mobility**	**Learning environments**
Room	*Delta*	*My*	*Omega*	*Sigma*
Chair	***Taru Penttilä***	***Kristiina Meltovaara***	***Motomu Takeshige***	***Louis Nadelson***
11:00-11:20	111. Kadri Umbleja, Vello Kukk, Martin Jaanus, Andres Udal and Boris Gordon: Analyzes of Competence Based Approach to Learning	195. James Uhomoibhi and Margaret Ross: Engineering Professional Development and Economic Growth: Issues of Collaboration between Academic, Industry and Professional Organisations for the Benefit of Employment and Sustainability	53. Anna Friesel: Experiences with exchange students at the Copenhagen University College of Engineering working in international project teams	237. Riikka Kulmala and Marika Säisä: Promoting knowledge sharing and innovativeness in e-learning environment
11:20-11:40	9. Desmond Adair and Martin Jaeger: On Moving from Structured Oral Assessments to Computer-Aided Assessments for Vocational Training	241. Vinícius A. A. Melo, Geraldo M. Lopes, Giuliano S. Olguin and Patrícia H. L. S. Matai: Information Technology in the computer engineering curriculum: an analysis among undergraduate institutions **CANCELED**	134. Patric Granholm, Aulikki Holma, Pia Lindgren and Olli Mäkinen: The Cosmos Project – an attempt to increase the employability of foreign students	270. Vladimir Nikulin and Victor Skormin: Worldwide-accessible 1.25 Gbps advanced laser communication laboratory
11:40-12:00	184. Lise Busk Kofoed and M. S. Stachowicz: Assessment of Students Project – Numbers, Letters, Words.	246. Mika Luimula and Janne Roslöf: Innovation Competences in Game Technology Education	144. Sebastien Lafond and Cecilia Brunel: Double Master Degree Programme: Enhancing Multicultural Engineering and Mobility between France and Finland	271. Adelson Carvalho, Dante Barone and Milton Zaro: MECATAS – Teaching and Learning Model for Control and Automation Engineering based on the Meaningful Learning Theory