

ICEE-2010 Sessions Schedule

Monday, July 19, 2010

Education & Congress Centre, Silesian University of Technology, Gliwice

ICEE-2010 Session MO: Opening Ceremony

SessionID: 104 **Date:** July 19, 10:00-11:00 **Room:** A

ICEE-2010 Session P1: Plenary: Transforming web-based education

SessionID: 105 **Date:** July 19, 11:00-12:00 **Room:** A **Chair:** Jerzy RUTKOWSKI (Poland)

Time	Title	Authors
11:00	Transforming Web-Based Education: From Web2.0 To Web4.0	Vladimir Uskov

ICEE-2010 Session M13A: Current trends in engineering education (1)

SessionID: 106 **Date:** July 19, 13:15-15:00 **Room:** A **Co-chair:** Vic ILIC (Australia) **Co-chair:** Olli MERTANEN (Finland)

Time	Title	Authors
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13:15	Development of Engineering Education in Saudi Arabia	Abdullah I. Al-Mhaidib
13:30	Enhancing Quality of Technical Education - Looking Beyond	Hemant K. Abhyankar , Deepak Tilak
13:45	Promoting Vocation for Communication and Electronic Engineering	Carmen Bachiller, Juan Vicente Balbastre, Javier Oliver
14:00	Integrating Lectures and Labs Using the Mobile Studio	Peter Bofah, Mohamed Chouikha
14:15	Facing the Challenges of Engineering Education: Continuous Improvement at Universidad del Norte	Amparo Camacho, Yulid Ruiz
14:30	The Curriculum Reform of the Civil Engineering Undergraduate Course at UNICAMP School of Engineering, Architecture and Urban Design	Mario C. Cavichia, Francisco A. Menezes, Marina S. de Oliveira Iilha, Carlos G. de Nave Mendes, Sérgio F. Barbosa
14:45	Complementary Simulation and Remote Laboratory Experiences to Hands-on Control Systems Curriculum	Daniel Cox, Zeynep Meric, Rainer Bartz, Christof Ctistis

ICEE-2010 Session M13C: Problem based learning (1)

SessionID: 107 **Date:** July 19, 13:15-15:00 **Room:** C **Co-chair:** Luis M. SANCHEZ RUIZ (Spain) **Co-chair:** Katarzyna MOŚCIŃSKA (Poland)

Time	Title	Authors
13:15	Problem Solving and Creativity in Engineering: Conclusions of a Three Year PBL Project Involving Reusable Learning Objects and Robots	Jonathan Adams, Stefan Kaczmarczyk, Phil Picton, Peter Demian
13:30	Contextual Learning in Math Education for Engineers	Jennifer Czocher, Gregory Baker
13:45	A Successful Partnership for the Development of a Laboratory Friction Testing Apparatus: A Project Review	Luis F. Silva, Eurico Seabra, Mário Lima, Rosa M. Vasconcelos, Janete Alves, Catarina Guise, Daniel Martins

14:00	Web Based Enterprise Performance Appraisal Information System	Radim Farana, Martin Raiski, Jana Jezikova
14:15	An Attempt of Problem Based Learning by Sharing Method	Shigetoshi Ishizaki, Jun-ichi Ozaki, Shigeru Saito, Satoru Takenawa, Takeshi Nakatsuji
14:30	Conversation Analysis of PBL in Metaverse for Students from the USA, Korea and Japan	Hideyuki Kanematsu, Yoshimi Fukumura, Dana M. Barry, So Young Sohn, Ryosuke Taguchi, Nunez Rattia Rodrigo Arturo
14:45	Intelligent Control Design Using S12 Microcontroller: a Student Design Workshop	Christopher Carroll, Marian Stachowicz

ICEE-2010 Session M13D: Collaboration between universities and industry (1)

SessionID: 108 **Date:** July 19, 13:15-15:00 **Room:** D **Co-chair:** Klaus WUERSIG (USA) **Co-chair:** Sergey DUBIKOVSKY (USA)

Time	Title	Authors
13:15	The Value of Experiential Learning - the Student Perspective	Rosetta Ziegler
13:30	Collaborating with Industry to Improve Realism and Employability in Undergraduate Software Engineering	Marie Devlin, Chris Phillips
13:45	The Evolution of the Capstone Design Course in the Mechanical Engineering Curriculum at Howard University	Emmanuel Glakpe, Horace Whitworth, Lewis Thigpen
14:00	Engineering in Healthcare Delivery	Lucy Siu-Bik King, Reynaldo Tungol Jr.
14:15	Educating Oil Drilling Engineering Professionals of Tomorrow	Nader Nabhani
14:30	The Development of Courses for the NDT Industry in Collaboration with the Industry Body and the Students Themselves	Phil Picton, Muhammad Zaid
14:45	How to Get Students Involved Learning Photovoltaics	Luis Castaner

ICEE-2010 Session M13E: New teaching methods (1)

SessionID: 109 **Date:** July 19, 13:15-15:00 **Room:** E **Co-chair:** Jean-Marc ROBERT (Canada) **Co-chair:** James UHOMOIBHI (United Kingdom)

Time	Title	Authors
13:15	Engineers, are Marks Important?	Alvaro Araujo, José M. Moya, Pedro Malagón, Elena Romero, Marina Zapater
13:30	Was Maxwell Aware of Including Relativity Theory in His Equations?	Yuval Beck, Arie Braunstein
13:45	Promotion of Popular Science Education of Nanotechnology in Ilan by Service-Learning Methodology	Wen-Hung Hsu, Su-Der Chen, Ya-I Cho, Chieh-Ping Hsu, Yu-Jane Chen, Hui-Huang Chen
14:00	The Adoption of the Multidisciplinary Through Common Projects: a Microprocessors, Electronic Instrumentation and Industrial Informatics Courses Effort	Valfredo Pilla Jr., Edson Pedro Ferlin, José Carlos da Cunha, Amarildo Geraldo Reichel
14:15	Teaching Algebra and Calculus to Engineering Freshers via Socratic Dialogue and Eulerian Sequencing	Larissa Fradkin
14:30	Taking Control	George P. Grodzicki
14:45	Enhancing Student Understanding of Concepts in Engineering and other STEM Areas using Spreadsheets	Martin R. Varley, Michael S. Peak, Philip D. Picton, Fraser Hatfield

ICEE-2010 Session SP1 : Special plenary session

SessionID: 110 **Date:** July 19, 15:45-17:30 **Room:** N

Tuesday, July 20, 2010

Education & Congress Centre, Silesian University of Technology, Gliwice

ICEE-2010 Session P2 : Plenary: Research on engineering education

SessionID: 111 Date: July 20, 09:00-10:00 Room: A Chair: Jerzy MOŚCIŃSKI (Poland)

Time	Title	Authors
09:00	Research on Engineering Education; The Development of a Field of Applied Research	Erik de Graaff

ICEE-2010 Session T11A: Current trends in engineering education (2)

SessionID: 112 Date: July 20, 10:15-12:15 Room: A Co-chair: Rosetta ZIEGLER (South Africa) Co-chair: Olli MERTANEN (Finland)

Time	Title	Authors
10:15	Strategies to Engage Engineering Students in Group Project Work	Les A. Dawes, Bouchra Senadji
10:30	The Present and the Desired Future of Hungarian Engineering Education from the Perspective of the Hungarian Chamber of Engineers	Jozsef Mecsi
10:45	Large Matched-Index-of-Refraction (MIR) Flow Systems for International Collaboration in Fluid Mechanics	Donald M. McEligot, Stefan Becker, Hugh M. McIlroy Jr.
11:00	Expectations Versus Reality in the Education and Training of Engineers	George Gibbon, Ian Jandrell, Alan Clark

11:15	Which Model of Engineering Education to Adopt	Ruzica R. Nikolic
11:30	Case Study: A Universal Study Platform for Embedded Software Education	Kai-Chao Yang, Chih-Ting Kuo, Yu-Tsang Chang, Chien-Ming Wu, Jia-Rong Chang, Chun-Ming Huang, Chin-Long Wey
11:45	Constructing a Holistic Curriculum Map for University Nanotechnology Education in Taiwan	Yi-Lin Liu, Tzy-Ling Chen, Hsiu-Ping Yueh, Horn-Jiunn Sheen
12:00	Use of Course-Embedded Assessment for Assessing Program Outcomes	YoungTaek Jin

ICEE-2010 Session T11C: Sustainable development

SessionID: 113 **Date:** July 20, 10:15-12:15 **Room:** C **Co-chair:** Klaus WUERSIG (USA) **Co-chair:** James UHOMOIBHI (United Kingdom)

Time	Title	Authors
10:15	Introduction to Electrical and Computer Engineering Using the Mobile Studio: An Outreach Program	Peter Bofah, Mohamed Chouikha
10:30	Engineering Culture, Sustainability and Humanitarian Engineers	Kathleen Godel-Gengenbach
10:45	Meeting Educational Needs of the Sustainable Energy Industry	Wieslaw Grebski, Shaobiao Cai
11:00	Perceptions of the Infrastructure in the U.S.	Hari Chintalapudi, Enno Koehn
11:15	A New Approach to Delivering Greener Infrastructure for Developing Countries	Peter O'Neill, Tony Greening
11:30	The Influence of Boundary Conditions on the Natural Ventilation in Buildings	José Carlos Teixeira, Ricardo Sousa Lomba, Pedro M. Lobarinhas
11:45	Design of Engineering Curriculum Considering Sustainable Development Role	Waleed A. Thanoon, Subhi Aziz, A. Hussein, Al Abduldader, Mustafa Saleh
12:00	Green IT Issues in Engineering and Computing from European and Global Perspective	James Uhomoi bhi, Bob Crooks, Colin Pattinson, Margaret Ross

ICEE-2010 Session T11D: E-learning and e-assessment (1)

SessionID: 114 **Date:** July 20, 10:15-12:15 **Room:** D **Co-chair:** Carmen BACHILLER (Spain) **Co-chair:** Olga DOLININA (Russia)

Time	Title	Authors
10:15	Developing Curriculum Sequencing for Managing Multiple Texts in e-Learning System	Yu-Liang Chi
10:30	Developing Integrated Learning Environment – Analysis	Vello Kukk, Martin Jaanus, Kadri Umbleja, Oleg Shevts
10:45	Performance on Collaborative Tasks in Blackboard Chat Rooms and Immersion in Internet-Based Social Networks	Barbara T. Pioro
11:00	Modern Software Tools for Researching and Teaching Fuzzy Logic Incorporated into Database Systems	Bozena Malysiak-Mrozek, Stanislaw Kozielski, Dariusz Mrozek
11:15	Development of Team-Based Electronic Protfolio in the Teaching & Learning of Ordinary Differential Equations	Azizan Zainal Abidin, Fatimah Saleh
11:30	A Method of Setting Examination Papers and Generating the Solutions	Elizabeth M. Laws
11:45	Personalising the Examination Paper by Harnessing Technology	Elizabeth M. Laws
12:00	E-learning Platform as a Support in the Technical Education of Disabled People	Grzegorz Cwikla, Adrian Kampa, Grzegorz Golda

ICEE-2010 Session T11E: New teaching methods (2)

SessionID: 115 **Date:** July 20, 10:15-12:15 **Room:** E **Co-chair:** Luis M. SANCHEZ RUIZ (Spain) **Co-chair:** Jerzy MOŚCIŃSKI (Poland)

Time	Title	Authors
10:15	An Integrated Experience of Building Design: on the Educational and Scientific Role of a Professional Practice in the Academic Environment	Guilherme Lassance, Patricia Figueira Lassance, Elaine Vazquez, Pedro Engel
10:30	Classroom Integration of a Construction Case Study Using Active Learning	Robert L. Mokwa
10:45	Techniques for Modeling Discrete Controllers for the Optimization of Hybrid Plants: a Case Study	Eurico Seabra, José Machado, Celina P. Leão, Luís F. Silva
11:00	Construction of MBO System Connecting with the University Consultation System	Se-Ho S. Park, Yun-Hae Kim, Won-Sung Yoon
11:15	Entrepreneurship Training: a Case Study in Engineering Students	Manuel Duarte, Inês Direito, Ilodio Castro Oliveira, Hugo S. Félix
11:30	Remote Real-Time Data Management for Education of Identification and Modeling	Zbigniew Ogonowski
11:45	Enhancing Engineering Students' Innovation Skills through Innovation Pedagogy – Experiences in Turku University of Applied Sciences	Ari Putkonen, Liisa Kairisto-Mertanen, Taru Penttilä
12:00	Mathematics for Engineering from a Platform Based in the Project Sakai	Jose A. Morafío, Luis M. Sanchez Ruiz

Wednesday, July 21, 2010

Education & Congress Centre, Silesian University of Technology, Gliwice

ICEE-2010 Session P3 : Plenary: Framework for higher education qualifications

SessionID: 116 **Date:** July 21, 09:00-10:00 **Room:** A **Chair:** Jerzy RUTKOWSKI (Poland)

Time	Title	Authors
09:00	The Framework for Higher Education Qualifications in Poland	Bohdan Macukow

ICEE-2010 Session W11A: Information and communication technologies

SessionID: 117 **Date:** July 21, 10:15-11:15 **Room:** A **Chair:** Donald McELIGOT (USA)

Time	Title	Authors
10:15	A Multimodal Environment for Cooperative and Transnational Training Activities A Multimodal Environment for Cooperative and Transnational Training Activities	Mihai Polceanu, Ammar Assoum, Jean-Pierre Gerval, Dorin-Mircea Popovici, Bassem Fennani, Yann Le Ru, Hùng Ngô, Habib Hamam, Valeriu Dulgheru
10:30	The Importance of Sliding Window Protocol Generalisation in a Communication Protocols Course	Drago Hercog
10:45	Development of Software for Philanthropic Institutions in an Extension Service Project at Positivo University	Maristela R. Weinfurter Teixeira, Marcelo M. Gonçalves, Edson P. Ferlin

How to Design an Engineering Course Syllabus to Satisfy ABET Program
11:00 Outcomes and Course Objectives Faculty Teach? An Assessment Instrument Example Prakash Ranganathan, Richard Schultz, Kendall Nygard

ICEE-2010 Session W11C: Geometry and graphics in engineering education

SessionID: 118 **Date:** July 21, 10:15-11:15 **Room:** C **Chair:** Krzysztof CZYŻ (Poland)

Time	Title	Authors
10:15	Report of 3D-CAD Engineer's Examinations in Japan	Tatsuya Mochizuki
10:30	Graphical Objects Geometrical Data Handling inside DWG Files	Vidmantas Nenorta
10:45	Designed Objects Visualization with Autodesk CAD Systems	Tilmute Pilkaite, Nomedas Puodziuniene
11:00	Education on Civil Engineering Branch of Study in Silesian University of Technology according to Polish Ministry of Science and Higher Education Requirements	Leszek Szojda

ICEE-2010 Session W11D: Biotechnology and environmental protection

SessionID: 119 **Date:** July 21, 10:15-11:15 **Room:** D **Chair:** Barbara T. PIORO (USA)

Time	Title	Authors
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10:15	Study on the Characteristics and Performance Assessment of Prepared Mesoporous Metal MCM-41 Catalyst for Treating Di-chloromethane	Chang-Tang Chang, Huei-Huang Chen, Yi-Chun Lin, Weihsin Wu
10:30	Identification Direct Repeat Dyad Symmetrical PhoB Using (PHA) Family Bacteria	Mukesh Chandra, Atul Katiyar, Krishna Kumar Verma, B. N. Mishra, Amod Tiwari
10:45	Integrating Energy Research in the Built Environment	Avery D. Schwer, Mahmoud Alahmad, Dale K. Tiller, Patrick Wheeler, Adam Brumbaugh
11:00	Isotopic Methods in Environmental Studies and Environmental Protection	Andrzej Bluszcz, Anna Pazdur, Andrzej Rakowski, Jaroslaw Sikorski, Grzegorz Adamiec

ICEE-2010 Session W11E: Problem based learning (2)

SessionID: 120 **Date:** July 21, 10:15-11:15 **Room:** E **Chair:** Marian STACHOWICZ (USA)

Time	Title	Authors
10:15	Introducing an Innovative Project Management Framework for First Year Students – Project Work in a PBL Environment	Michael Labovic Moller, Lise Busk Kofoed
10:30	Increasing Student Engagement and Attention through Pre-Reading	Thinh Nguyen
10:45	Competency-Based Education in the Design of Medical Rehabilitation Devices: a Case Study	Eurico Seabra, Luís F. Silva, Paulo Flores, Mário Lima
11:00	Enhancing Skills through Integrated Projects - the Student Experience	Rosetta Ziegler

ICEE-2010 Session WS11 : Poster session

SessionID: 121 **Date:** July 21, 11:15-12:15 **Room:** A **Chair:** Jerzy MOŚCIŃSKI (Poland)

Title

Authors

Developing a New Curriculum for Green IT Based on a Survey of Industry Demands	KangWoo Lee, ChangHoon Lee
Adaptation experiences to the European Higher Education Area at the School of Design Engineering	Enrique Ballester-Sarrias, Laura Contat-Rodrigo, Pilar Molina-Palomares, Manuel Gasch-Salvador, Luis M. Sanchez Ruiz
Relationships between Satisfaction with Major and Career Decision Efficacy and Career Attitude Maturity of Engineering College Students	Seung Hee Kang, Myung-Jun Moon, Jun-Heok Lim, Jee-Hong Kim, Yeon Won Lee, Young Sik Ahn
Design of Long-Distance-Controlled Robots for Engineering Education	Akiyuki Minamide, Kazuya Takemata, Hirofumi Yamada, Pee Suat Hoon
European Project Semester - How Engineering Students can Achieve Important Competences	Jørgen Hansen
Design of Lifelong Learning Program with Regional Collaboration	Kazuya Takemata, Summio Nakamura, Akiyuki Minamide, Yoshihumi Tanaka
Building Reflective Collaborative Learning System Model for International Cooperative Problem-based Learning in Engineering Education	Insook Kim
Strategy of Using Blank-Chart Technique in Engineering Education	Sung-Sook Pu, Kyungwon Chang, Minkyong Song
Strategy of Selecting Topics for Debate Teaching in Engineering Education	Kyungwon Chang, Mi-hui Cho

ICEE-2010 Session W13A: Current trends in engineering education (3)

SessionID: 122 **Date:** July 21, 13:30-15:30 **Room:** A **Co-chair:** Jean-Pierre GERVAL (France) **Co-chair:** Małgorzata I. MICHALCZYK

(Poland)

Time	Title	Authors
13:30	Attracting and Retaining Women and Underrepresented Groups in Engineering, Science, and Related Programs	Sylvia Sorkin, Mary Elizabeth Gore
13:45	The Importance of the Research Programs of Reverse Engineering in Engineering Teaching Education	Gabriel Luna-Sandoval, Eusebio Jiménez López, Luis Andrés García Velázquez, Saúl Ontiveros Moroyoqui, Luis Reyes Ávila, Víctor Manuel Martínez Molina, Juan Delfín Vázquez, Baldomero Lucero Velázquez
14:00	Harmonized Quality Assurance and Assessment Methodology for Engineering Education	Guna Civcisa, Jolanta Janauska, Janis Mazais, Iveta Mezinska, Janis Mikelsons, Narimants Salenieks
14:15	Ethical Component of Engineering Education	Wojciech W. Gasparski
14:30	Mathematical Competencies of Engineering Students	Ewa Lobos, Janina Macura
14:45	Application of Bloom's Taxonomy for Increasing Teaching Efficiency – Case Study	Jerzy Rutkowski, Katarzyna Moscinska, Piotr Jantos
15:00	Developing Industry-Ready Engineers: a Regional University Perspective	Margaret Morgan, Pearse O'Gorman
15:15	Service Cloud for Information Retrieval from Multiple Origins	Marisa R. de Giusti, Ariel J. Lira, Nestor F. Oviedo

ICEE-2010 Session W13C: International cooperation and networking

SessionID: 123 **Date:** July 21, 13:30-15:30 **Room:** C **Co-chair:** Radim FARANA (Czech Republic) **Co-chair:** Wojciech ZIELIŃSKI (Poland)

Time	Title	Authors
13:30	Implementation and Formative Evaluation of International Research and Education in Engineering (IREE)	Win Aung
13:45	Twenty Years of Ibero American Science and Education Consortium (ISTEC): Past, Present and Future of a Collaborative Work	Marisa de Giusti, Ramiro Jordan, Wilfrido Moreno
14:00	International Environmental Problem Discussion by Using Moodle	Hideyuki Kanematsu, Robert Hogan, Peter Crouch, Sonoko Saito, Kiyotaka Atsumi, Tatsuya Shirai, Shigehiro Ishihara
14:15	International Cooperation in Engineering Education: The Support to Students in ESTG/IPPortalegre and CoE/UMichigan	Joao Miranda, Katta G. Murty
14:30	International Association of Information Technologies Education as Effective Form of Academic International Cooperation	Alexander Sytnik, Alexander Bolshakov, Olga Dolinina
14:45	From Hands-on Project Learning to an International Collaborated Satellite Research/Education Project	Jyh-Ching Juang, Chiu-Teng Tsai, Yung-Fu Tsai, Jiun-Jih Miao
15:00	Current International Networking for International Administration Officers at National Tsing Hua University	Wei-Chung Wang, Gina Wu, Jean Tai
15:15	Collaboration between Universities and Industry Based on Experience of the Silesian University of Technology	Jan Ślusarek, Błażej Sobota, Ewa Mendec

ICEE-2010 Session W13D: Collaboration between universities and industry (2)

SessionID: 124 **Date:** July 21, 13:30-15:30 **Room:** D **Co-chair:** Sergey DUBIKOVSKY (USA) **Co-chair:** Paweł PAWLEWSKI (Poland)

Time	Title	Authors
13:30	Humanities in Engineering and Engineering in Humanities	Vojislav Ilic
13:45	Improving Petroleum Continuing Engineering Education	Nader Nabhani
14:00	Education by University-Industry Coordination with Joint Research Project	Miyazato Shinichi
14:15	Implementation of the University-Industry Collaboration at NTHU in Taiwan	Wen-Tsuen Chen, Youn-Long Lin, Chen-Fu Chien, Dah-Tsyr Chang, Hsiao-Wei D. Chiang, Wei-Chung Wang
14:30	Industry & Academy Collaboration in Higher Education	Myung-Kook Yang
14:45	Industry-University Consortia and Conflicts of Interest	Barry Benedict
15:00	A Developing Joint Educational Framework for Incorporating Employability and Enterprise in the Engineering Curriculum	Martin R. Varley, Julie Hardy, Peter J. Sewell, Lorraine Dacre Pool, David Bagley, Fang Xiaodong, Philip Tranter, Jenny Shi, John A. Calderbank
15:15	Preparing Students for Lifelong Learning Technologies at Széchenyi István University	Zoltan Letray, László T. Kóczy

ICEE-2010 Session W13E: Computer based teaching

SessionID: 125 **Date:** July 21, 13:30-15:30 **Room:** E **Co-chair:** Marian STACHOWICZ (USA) **Co-chair:** Bohdan MACUKOW (Poland)

Time	Title	Authors
13:30	Numerical Integration in Tabular Form	Miguel Casquilho
13:45	Digital Filtering by means of the Fourier Transform Using Mathcad	Jose Luis Guinon, E. Ortega, J. García-Antón, V. Pérez-Herranz

14:00	Valuable Mathematical Tools in Engineering Education	Mario Leindl, Eduard R. Oberaigner
14:15	Systematization of the WebLabs Development Process: Towards an Approach Proposal	Luciano Mendes, Marcio Luiz Debner dos Santos, Marco Túlio Corrêa de Siqueira
14:30	New Teaching and Learning Methods through Virtual Environment	Vlasta Rabe
14:45	Computer (Jing) Based Teaching in Virtual Engineering Laboratories	Prakash Ranganathan, Kendall Nygard
15:00	A Study on Teaching Courses both in Class and at a Distance	Jean-Marc Robert
15:15	An e-Laboratory for Enhanced Science, Technology and Engineering Education	William Morton, James Uhomoibhi

ICEE-2010 Session W16A: Current trends in engineering education (4)

SessionID: 126 **Date:** July 21, 15:45-17:45 **Room:** A **Co-chair:** Vic ILIC (Australia) **Co-chair:** Jiri JAN (Czech Republic)

Time	Title	Authors
15:45	Theory and Practice of Biomedical Image Analysis for Interdisciplinary Graduate Students of Biomedical Technology and Bioinformatics	Jiri Jan
16:00	Employing Active Noise Control Problems in Education of Electrical Engineering Students	Malgorzata I. Michalczyk
16:15	Establishing CAD and PDM as Part of Engineering Education in Large Classes for Undergraduate Students	Albert Albers, Martin Geier, Thomas Maier, Steffen Jäger
16:30	Perceptions and Attitudes of Student on Soft Skills in Petroleum Engineering	Nader Nabhani
16:45	Contemporary Issues Held by Undergraduate Engineering Students	Enno Koehn, Chinwala Finhasali
17:00	A Quantitative Model and a Practical Rubrics for Thesis Assessment	Ho-Sung Kim

17:15 Future Design and Success Engineering in Global Society by Self-Innovation Yun-Hae Kim, Se-Ho Park
17:30 Teaching a Master Student how to Model the Electrical Potentials Produced by the Muscle Javier Rodriguez, Javier Navallas, Armando Malanda

ICEE-2010 Session W16C: Internationalization and globalization of engineering education

SessionID: 127 **Date:** July 21, 15:45-17:45 **Room:** C **Co-chair:** Siddharth K. JABADE (India) **Co-chair:** Barbara T. PIORO (USA)

Time	Title	Authors
15:45	EUR-ACE: A Common European Quality Label for Accredited Engineering Programmes	Giuliano Augusti
16:00	International Cooperation on Border Problem Solution	Barry Benedict
16:15	Expanding the Engineering Education Infrastructure of an Island Territory University	Anne Donnelly, Samesha Barnes, Jane Jacobi, Camille McKayle
16:30	Undergraduate Capstone Projects Integrate Technology and Engineering Programs	Sergey Dubikovskiy, Alten F. Grandt, Thomas A. Goodrich, Ronald Sterkenburg
16:45	A Comparative Analysis of the Mechanical Engineering Curricula of Two International Universities	Emmanuel Glakpe, Albert Sunnu
17:00	Developing Cross-Cultural Virtual Teams for Engineering Design Education	Alan Parkinson, Greg C. Jensen, Spencer Magleby
17:15	Use of Engineering Standards for Introduction to Global and Local Aspects of Engineering	Zbigniew Prusak
17:30	Cultivating Cultural Competencies through Various Classes	Yuko Hoshino

ICEE-2010 Session W16D: New teaching methods (3)

SessionID: 128 **Date:** July 21, 15:45-17:45 **Room:** D **Co-chair:** Radim FARANA (Czech Republic) **Co-chair:** Katarzyna MOŚCIŃSKA (Poland)

Time	Title	Authors
15:45	Collaborative Learning, Research and Science Promotion in a Multidisciplinary Scenario: Information and Communications Technology and Music	Carmen Bachiller, Carlos Hernández, Jorge Sastre
16:00	Introducing Microcontrollers and PLCs	George P. Grodzicki
16:15	A Study on the Indicators of the Nanotechnology Literacy and Ability of the University Students	Ming-Ta Wu, ShowYu Lin
16:30	Merging Engineering and Architectural Pedagogy - A Trans-disciplinary Opportunity?	Sinead C. Mac Namara, Clare J. Olsen, Scott L. Shablak, Carolina B. Harris
16:45	Specific Linguistic and Methodological Qualifications of English Language Teachers and Postgraduates	Dagmar Malíková
17:00	Logistics Engineering Curriculum Integrated Through Student Projects	Pawel Pawlewski, Zbigniew Pasek
17:15	Towards a New Language in Engineering Education	Patrick Rombauts
17:30	Cultivating Virtual Communities of Learning	Jacek Bendkowski

Thursday, July 22, 2010

Education & Congress Centre, Silesian University of Technology, Gliwice

ICEE-2010 Session P4 : Plenary: Building unknown leaders

SessionID: 130 **Date:** July 22, 09:00-10:00 **Room:** A **Chair:** Jerzy MOŚCIŃSKI (Poland)

Time	Title	Authors
09:00	The Engineering Education: Building Unknown Leaders	Jose Carlos Quadrado

ICEE-2010 Session R9A: Current trends in engineering education (5)

SessionID: 131 **Date:** July 22, 10:00-11:30 **Room:** A **Co-chair:** Siddharth K. JABADE (India) **Co-chair:** Małgorzata I. MICHALCZYK (Poland)

Time	Title	Authors
10:00	Engineering Thinking: Characterization by Experts and its Appearance in Graduate Design Projects	Nissim Sabag, Elena Trotskovsky
10:15	Introductory Physics Teaching in Engineering Education: How Can the Reflection on Teaching Practice Be Used to Improve Teaching and Learning?	Clara Viegas, Bernardino J. Lopes, Paulo J. Cravino
10:30	How will Renewable Energy Concepts and Nanotechnology Affect Engineering Education?	Klaus Wuersig
10:45	Analysis on Distance Education Model in Chinese University	GuoAn Zhang, Huang Gang

11:00 Education of Engineers at the Silesian University of Technology for the Needs of the Labour Market in the Region Stanislaw Kochowski

11:15 How 'practice makes perfect' on the faculty of Materials Engineering and Metallurgy? Maria Sozańska

ICEE-2010 Session R9C: Entrepreneurship and innovations at universities

SessionID: 132 **Date:** July 22, 10:00-11:30 **Room:** C **Co-chair:** Donald McELIGOT (USA) **Co-chair:** Katarzyna MOŚCIŃSKA (Poland)

Time	Title	Authors
10:00	Building an Innovation Service Platform for Students: a Case Study in Nanjing University of Aeronautics and Astronautics	Aihua Jiang
10:15	Innovation and Patenting Activities at Universities in Taiwan	Szu-chia Lo
10:30	Industrial Process Simulation and Optimization	Roman Pavlas, Pavel Smutny
10:45	Enhancing Students' Innovation Competences by Contests in Engineering Education: A Case Study	Chen Xu, Kong Chuiqian
11:00	The Research Lines of the Computer Engineering Program as Guidelines to Themes of Scientific Initiation and Undergraduate Thesis	Edson Pedro Ferlin, Valfredo Pilla Jr., Jose Carlos da Cunha, Maristela R. W. Teixeira, Mauricio Perretto, Marcelo M. Gonçalves

ICEE-2010 Session R9D: New teaching methods (4)

SessionID: 133 **Date:** July 22, 10:00-11:30 **Room:** D **Co-chair:** Jean-Marc ROBERT (Canada) **Co-chair:** Krzysztof CZYŻ (Poland)

Time	Title	Authors
10:00	Computing Across the Curriculum	Thyagarajan Srinivasan
10:15	Effective Learning Technologies in IT for Children	Olga Dolinina
10:30	Designing Role-Playing Games to learn Mathematics	Afza Shafie, Wan Fatimah Wan Ahmad
10:45	Visualization - A Powerful Tool for Effective Teaching of Dynamics	Yuan-Tong Gu, Andy Tan
11:00	Teaching Plasma Nanotechnologies Based on Remote Access	Alexander M. Zimin, Andrey Shumov, Semen Krivitskiy, Vladislav Troinov

ICEE-2010 Session R9E: E-learning and e-assessment (2)

SessionID: 134 **Date:** July 22, 10:00-11:30 **Room:** E **Co-chair:** Jean-Pierre GERVAL (France) **Co-chair:** Jan PIECHA (Poland)

Time	Title	Authors
10:00	E-courseware Characteristic Features Implementation on its Content Development Platforms	Jan Piecha
10:15	The Concurrent Method of Personalised E-learning Path Evaluation	Marcin Bernas
10:30	Java-based E-learning and E-assessment with Encryption	Zenon Harley, Eric R. Harley
10:45	Trends in the Development of E-Learning in Engineering and Computing Education	James Uhomoibhi, Margaret Ross
11:00	Soft Computing for Control Applications: Teacher Experience	Marian Stachowicz

ICEE-2010 Session RC : Closing Ceremony

SessionID: 135 **Date:** July 22, 11:45-12:30 **Room:** A
