

RESEARCH & DEVELOPMENT
14h30 – 16h00 | 30/08/2016 Tuesday | Room 11

INNOVATION IN TEACHING TECHNOLOGY



Moderator: Vitor Chaves De Oliveira

Engineering - Coach IT Group Inc. / UNISAL / DeVry Metrocamp / SET



Innovative experiences in the Postgraduate Program in Electrical Engineering and Computer Science at the Mackenzie University

Speaker: Paulo Batista Lopes Coordinator of the Postgraduate Program in Electrical Engineering and Computer Science / Mackenzie Presbyterian University - UPM



Inseparability Research-Education-Extension

Speaker: Amilton Da Costa Lamas Professor / Pontifical Catholic University of Campinas - PUC-CAMPINAS



Integrated actions of Educational Inatel Programs for Innovative Professional formation

Speaker: Carlos Nazareth Motta Marins Vice Diretor e Pró Diretor de Graduação / Instituto Nacional de Telecomunicações – INATEL



Preparando os Jovens engenheiros para a convivência com o Cenário de Mutaç o Tecnol gica constante

Speaker: Marcelo Knorich Zuffo Full Professor in the Department of Electronic Systems Engineering / Polytechnic School at USP



Metodologias Ativas para Aprendizagem - Experi ncias da Unisal na parceria do Cons rcio STHEM Brasil

Speaker: Nasser Mahmoud Hasan Prof. & L der do Grupo de Inova o e Nanotecnologias do UNISAL



Provocando com tr s palavras: INOVA O, TECNOLOGIA e ENSINO

Speaker: Jos  Frederico Rehme Education Director - Diretor de EngSET/ Positivo Universitaria da TVCi / Diretor de Ensino da SET

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INNOVATION IN TEACHING TECHNOLOGY

Moderator: VITOR CHAVES DE OLIVEIRA

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This session is intended to present different methodologies to be applied in the teaching of engineering, technology and applied sciences.

- **Innovative experiences in the Postgraduate Program in Electrical Engineering and Computer Science at the Mackenzie University**
Speaker: **Paulo Batista Lopes**
Coordinator of the Postgraduate Program in Electrical Engineering and Computer Science / Mackenzie Presbyterian University - UPM
The teaching of sciences in the strict sense postgraduate courses has generally been characterized by traditional classes using blackboard and pens. In this lecture will be discussed innovative experiences applied to masters and doctoral students in Electrical and Computer Engineering. These experiments are designed to provide motivation through contextualization of research under the condition of technology and society, as well as by viewing the theoretical concepts discussed.
- **Inseparability Research-Education-Extension**
Speaker: **Amlton Da Costa Lamas**
Professor / Pontifical Catholic University of Campinas - PUC-CAMPINAS
A solid preparation of the student in electrical engineering requires deep technical expertise that enable solving technological challenges as well as skills and sensitivities for defining the best innovations delivery strategy for the society. This lecture will look at the inseparability of research, teaching and extension in the integral formation of electrical engineers, as the pillar on experience in delivering knowledge and skills developed in the undergraduate program directly to the society, making the student protagonist of his training process.
- **Integrated actions of Educational Inatel Programs for Innovative Professional formation**
Speaker: **Carlos Nazareth Motta Marins**
Vice-Director e Pro Director of Graduation / National Institute of Telecommunications - INATEL
The Inatel educational programs of undergraduate and graduate have centers, laboratories and actions aimed at integrating the academic world with the needs of the technology market, involving the institutional community of students, teachers and professionals in engineering and technology actions that bring the concerns of the academic world and the market needs, with a permanent view on the need to educate and train professionals of excellence with competence and skills essential for a dynamic market focused on innovation.
- **Preparando os Jovens engenheiros para a convivência com o Cenário de Mutaç o Tecnol gica constante**
Speaker: **Marcelo Knorich Zuffo**
Full Professor in the Department of Electronic Systems Engineering / Polytechnic School at USP

A palestra visa demonstrar como trabalhar a adaptabilidade necessária para o Profissional atualmente.

- **Metodologias Ativas para Aprendizagem - Experiências da Unisal na parceria do Consórcio STHEM Brasil**

Speaker: **NASSER MAHMOUD HASAN**

Prof. & Líder do Grupo de Inovação e Nanotecnologias do UNISAL

A apresentação visa compartilhar os resultados da parceria do Consórcio STHEM Brasil com participação de IESs do Brasil com o objetivo de empregar métodos inovadores de aprendizagem de Universidades internacionais como Harvard e MIT.

- **Provocando com três palavras: INOVAÇÃO, TECNOLOGIA e ENSINO**

Speaker: **José Frederico Rehme**

Education Director - Diretor de EngSET/ Positivo Universityaria da TVCi / Diretor de Ensino da SET

O processo tão bem discutido por pedagogos sobre ensino e aprendizagem não é exato ou preciso. O que realmente importa é a aprendizagem, e trata-se de uma experiência e conquista individual. O ensino é meio, quase que uma ferramenta. Focando sempre no resultado e não no processo, vamos apresentar algumas definições formais e outras desenvolvidas ao longo da vivência profissional para essas três palavras: inovação, tecnologia, ensino.



VITOR CHAVES DE OLIVEIRA

Engineering – Coach IT Group Inc. / UNISAL / DeVry Metrocamp / SET

Vitor is a Brazilian Professor, Consultant and Researcher. PhD student in Electrical Engineering (Mackenzie), Master (MSc) in Electrical Engineering (PUCC), Specialist (MBA) in Electrotechnical Engineering and Power Systems (UNISAL), has a Bachelor's (BSc) Degree in Computer Science (UNISAL) and is an Informatics Technician (SENAI). College Professor working in the areas of Electrical Engineering and Computing at the Salesian University Center of São Paulo (UNISAL) and at the Metropolitan Integrated College of Campinas (DeVry Metrocamp); Magazines Editor (in Broadcast Engineering) / Chair & Manager for the SET EXPO Technology Conference for the Brazilian Society of Television Engineering (SET); Member of Engineering – Infrastructure/Broadcast/Cloud/ERP/Web/Mobile for the 'Coach IT Group Inc.'. Is a book author in Cloud Computing area and has published dozens of articles in Scientific Journals and at National and International Conferences. His research interests are focused on Telecommunications: IP Networks, Radio Broadcasting (Digital TV), Electromagnetic Theory, Control Algorithms, Mathematical Systems Modeling, Virtualization and Energy Efficiency



PAULO BATISTA LOPES

Coordinator of the Graduate Program in Electrical Engineering and Computing - Mackenzie Presbyterian University

A graduate of the Federal University of Rio de Janeiro (1978), with a Master's in Electrical Engineering from the same university (1981) and a doctorate in Electrical Engineering from Concordia University (1985). He is currently the Coordinator of the Graduate Program in Electrical Engineering and Computing at the Mackenzie Presbyterian University and a Reviewer of periodicals on Circuits, Systems and Signal Processing. He has experience in the field of Electrical Engineering, with the emphasis on Telecommunications, having worked in the industry for over 20 years. He is involved primarily with the following topics: Signals Processing, Active Filters, Modulation Systems, etc.



AMILTON DA COSTA LAMAS

Professor / Pontifical Catholic University of Campinas - PUC-CAMPINAS

PhD in physics from Clark University (1987). He is currently a professor on extension courses at the Pontifical Catholic University of Campinas. 28 years' experience in Electrical Engineering, specializing in Telecommunications Systems, engaged primarily in the following topics: digital TV, electrical engineering services and applications. Since August 2014, he has been engaged full-time in the university extension project at PUC-Campinas.



CARLOS NAZARETH MOTTA MARINS

Deputy Director and Undergraduate Pro-Director - INATEL/SET

Holds a Doctorate in Electrical Engineering (2010) from FEEC – UNICAMP (DSIF). A Master's in Telecommunications (2004) and an undergraduate degree in Electrical Engineering, specializing in Electronics and Telecommunications (1994) from INATEL. Technical Qualification in Electronics (1989) from the ETE-FMC of Santa Rita do Sapucaí – MG. Deputy Director and Undergraduate Pro-Director at INATEL. Member of the SET Teaching Board. Professor on the Engineering and Technology Courses of the INATEL. ICC-INATEL consultant on projects in the telecommunications and electronics areas. Was a teacher at the ETE-FMC from 1991 to 1999 and a product development engineer at LINEAR Equipamentos Eletrônicos S.A. (Hitachi Kokusai Linear Equipamentos Eletrônicos S.A.) from 1994 to 2004.



MARCELO KNÖRICH ZUFFO

Professor Titular da Escola Politécnica da Universidade de São Paulo (USP)

An Electrical Engineer from the Polytechnic School of the University of São Paulo (1989), with a Master's in Electrical Engineering (1993), a Doctorate in Electrical Engineering (1997), a lecturer specializing in Interactive Electronic Media and Titular Professor (2006) of the Department of Electronic Systems Engineering of the Polytechnic School of the University of São Paulo. He has been involved with the Integrable Systems Laboratory (LSI), coordinating research and development in the field of Interactive Electronic Media, with the focus on the following topics: interactive media engineering, digital healthcare, high-performance computing, virtual reality, computer graphics and display. In 2001, he developed the first total immersive virtual reality system in Brazil, called Digital Cave (Caverna Digital). Since 2011, he has been coordinating the Interdisciplinary Center in Interactive Technologies at the University of São Paulo (USP)



NASSER MAHMOUD HASAN

Prof. & Líder do Grupo de Inovação e Nanotecnologias do UNISAL

Nasser Mahmoud Hasan is a professor at Unisal/ São José in Campinas-SP. He heads up the Innovation and Nanotechnologies Group at UNISAL. He engaged in research in the field of Nanotechnology during his post-doctorate at the Electrical Engineering Department of the Polytechnic School at USP and at the Semiconductor Components Center of UNICAMP. He has a Doctorate and a Master's in Microelectronics from the Electrical Engineering Department of the Polytechnic School of USP. He did a sandwich doctorate for 10 months in the Department of Physics at the University of Bristol – United Kingdom. He has a lot of interest in Education, Innovation, Entrepreneurship, Physics, Electrochemistry, Nanotechnology and the Retail sector. He also has an MBA in Sales Management from FGV.



JOSÉ FREDERICO REHME

Education Director - Diretor de EngSET/ Positivo Universityaria da TVCi / Diretor de Ensino da SET

A graduate from UTFPR in Electrical Engineering – Electronics and Telecommunications in 1990 and an MSc. in 2007, defending the dissertation on the quality assessment of video over IP (Avaliação de Qualidade de Vídeo sobre Redes IP) He has worked at the RPC (the Paraná Communication Network) since 1986 as Telecom R&D Coordinator. Member of SET as Education Director. His current work involves the implementation of Terrestrial Digital TV at RPC broadcasters and the dissemination of Digital TV through talks and mini courses to a range of audiences

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