Welcome to ESEO, Angers

ESEO is an Institute of Science and Technology dedicated to Higher Education, Research and Innovation, founded in 1956.

Born as an electronics school, it has expanded to become a generalist school addressing all aspects of Information Technology and Electrical Engineering.

Since 1962, it is accredited to deliver the “Diplôme d’Ingénieur”, a Master of Science degree in Engineering.

Beyond education, ESEO is committed to research and innovation via its important research laboratory.

ESEO is closely connected to the professional world, through its supervisory board and its education and innovation activities.

**8 Majors are given at ESEO**:
- Biomedical, Software and Data
- Cloud computing, Network
- Embedded Systems, Connected Objects
- Energy & Environment
- Data Science Multimedia & Telecom

Research at ESEO

Over the past 20 years, ESEO has developed an extensive research activity, participating to leading academic networks as well as developing applied research with companies.

Its research team is currently strong of 45 researchers and doctoral students.

**Key research areas: Cyber Physical Systems**
- Electronics: Advanced sensors; EMC; RF, antennas; Energy efficiency & harvesting
- Power electronics, automatics & control systems
- Advanced/embedded signal processing; data mining
- Real-time, embedded software; model-driven software engineering
**COST Action BM1205**  
**Thursday 22/09**

10h00 Workgroup meeting
10h50 Coffee break
11h00 Welcome to ESEO! Welcome speech by Olivier Paillet (ESEO General Manager)  
Workshop “Signal and image processing for biomedical applications”
11h20 Damien Ferrario: New challenges for non-invasive monitoring  
Centre suisse d’électronique et de microtechnique (CSEM), Switzerland
11h40 Igor Meglinski: Polarization based imaging techniques  
University of Oulu, Finland
12h00 Dror Fixler: New imaging techniques based on plasmon-coupled probes for medical applications.  
Bar ilan University, Israel
12h20 Young researchers section
12h20 Alexis Louis, Felix Gontier: Data analysis applied to pattern recognition  
ESEO-SIAT, Angers, France
12h40 Romain Cormerais, Julien Namdar Irani: Calculation time reduction by means of parallel computing  
ESEO-SIAT, Angers, France
13h00 Networking Lunch
14h00 Meeting of COST BM1205 Management committee
16h00 End of MC Meeting
17h00 Social activity: Visit to Angers Museum and Castle
20h30 Networking Dinner

**COST Action BM1205**  
**Friday 23/09**

Workshop “Signal and image processing for biomedical applications”

10h00 Eric Tkaczyk: Survey of state-of-the-art imaging technologies in dermatologic clinical practice  
University of Tartu, Estonia-Vanderbilt University, USA
10h20 Boris Majaron: In vivo characterization of human skin using diffuse reflectance spectroscopy, photothermal radiometry and inverse Monte Carlo approach  
Jožef Stefan Institute, Ljubljana, Slovenia
10h40 Aleksejs Lihačovs: Dynamics of skin autofluorescence and its application for non-invasive skin cancer diagnostics  
University of Latvia, Riga, Latvia
11h00 Inga Saknite: Shortwave infrared hyperspectral imaging for estimation of water and lipid content in moisturizing creams and human skin  
University of Latvia, Riga, Latvia
11h20 Coffee break
11h40 Martijn de Bruin: Digital optical pathology of tissue: an update  
Academisch Medisch Centrum (AMC), Amsterdam, the Netherlands
12h00 Tatiana Novikova: Imaging Mueller polarimetry for biomedical diagnostics  
Ecole polytechnique, Palaiseau, France
12h20 Marcin Gnyba: IR Raman spectroscopic methods in tissues investigation  
Gdansk University of Technology, Poland
12h40 Luigi Casacanditella: Extracting information from cardiac-related signals using traditional and innovative measurement methods  
Università Politecnica delle Marche, Ancona, Italy
13h00 Workshop concluding remarks
15h00 Workgroup meeting