

Session 4

Chairman: Prof. Z. Hlavacova

- 10.20-10.40 *V. Vozárová, A. Petrović and J. Csillag*: Fast originality control of products by DSC methods
- 10.40-10.50 *P. Hlaváč, M. Božiková, V. Ardonová and P. Kotoulek*: Apparent viscosity and density of chosen tomato ketchups
- 10.50-11.00 *L. Kubík*: Compressive properties of buck wheat perga
- 11.00-11.10 *J. Górmínska, M. Stasiak*: Mechanical properties of food powders
- 11.10-11.20 *E. Habza-Kowalska, D. Dżiki, G. Cacak-Pietrzak, A. Miś*: Determination of wheat grain physical properties using single kernel characterization system
- 11.20-11.30 *I.R. Nikolényi*: New and innovative methods for remote detection of alpha radiating particles in the environment
- 11.30-11.40 *K. Zehouani and I. Oldal*: Flexion-rotation angle of the new model of the knee prosthesis in Adams program
- 11.40-12.00 COFFEE BREAK

Session 5

Chairman: Prof. I. Farkas

- 12.00-12.10 *Cs. Mészáros, I.R. Nikolényi and Á. Bálint*: A new application of the line group theory in the solar element materials
- 12.10-12.20 *J. Csillag, A. Petrović, M. Bilčík*: Comparison of new and used biolubricants based on rheological properties
- 12.20-12.30 *I.R. Nikolényi*: Theoretical study of poly(*p*-phenylene vinylene) and its derivatives by positive semidefinite operators
- 12.30-12.40 *W. Rumińska, M. Krekora, A. Nawrocka*: By FT-IR and FT-Raman spectroscopy
- 12.40-12.50 *E. Wnuk, A. Walkiewicz, A. Bieganowski*: Factors regulating methane cycle in agricultural soil
- 12.50-13.00 *I. Seres and P. Víg*: Experiments at low temperature
- 13.00-13.10 *P. Hermanucz, J. Benécs*: Applying the Intelligent Measuring System (IMRe) to a cooling system used in the food industry
- 13.10-13.20 *A. Nosalewicz, J. Siecińska, K. Kondracka, M. Nosalewicz*: Impact of stress memory on grass growth at water deficit conditions
- 13.20-13.30 *D. Rusirawan, N. Sari, F. Hidayat and I. Farkas*: Modelling of the photovoltaic module characteristics using Visual Basic for application Microsoft Excel
- 13.30-14.30 LUNCH
- 14.30-15.00 CLOSING

B P S

BioPhys Spring 2019

18th International Workshop for Young Scientists

PROGRAM

May 22-24, 2019

Gödöllő, Hungary



18th International Workshop for Young Scientists (BioPhys Spring 2019)

May 22-24, 2019, Gödöllő, Hungary
Department of Physics and Process Control, Szent István University

Program

May 22 (Wednesday), Department of Physics and Process Control

17.00-18.00 Registration
18.00-20.00 Welcome reception

May 23 (Thursday), Seminary building (SZ 213)

08.30-08.50 Opening the Workshop by:
Prof. I. Farkas Chairman, BPS 2019
Institute for Environmental Engineering
Szent István University, Gödöllő, Hungary
Prof. L. Kátai Dean
Faculty of Mechanical Engineering
Szent István University, Gödöllő, Hungary

Session 1 Chairman: Prof. V. Vozarova

08.50-09.10 *J. Horabik*: DEM modelling of tensile strength of starch tablets
09.10-09.20 *M. Drobek and J. Cybulska*: The influence of enzymes on the structure of polysaccharides of fruit cell walls on the example of "dipret" strawberries
09.20-09.30 *M. Krekora, W. Rumińska, Z. Niewiadomski, A. Nawrocka*: Changes in the structure of gluten proteins in the model bread dough, as a result of the use of selected phenolic acids
09.30-09.40 *S.M.A. Letsoin*: Sago palm vegetation using sentinel-2 imagery
09.40-09.50 *D. Malarczyk, J. Panek and M. Frqc*: Fungal pathogens in ecological strawberry fields
09.50-10.00 *J. Panek, D. Malarczyk and M. Frqc*: Isolation of microbial DNA from soil - metagenomic approach
10.00-10.10 *J.O. Szafrńska, B.G. Solowiej*: Effect of whey proteins on physicochemical properties of cheese sauces obtained on the basis of acid casein
10.10-10.30 COFFEE BREAK

Session 2

Chairman: Prof. J. Horabik

10.30-10.50 *I. Farkas*: Development of solar cell efficiencies
10.50-11.00 *D. Atsu, I. Seres and I. Farkas*: Reliability and degradation rate of ground mounted solar modules in tropical climate of the Sub-Saharan
11.00-11.10 *M. Bilčík, M. Malínek, M. Božiková, J. Csillag, A. Petrović*: Analysis of the photovoltaic module temperature
11.10-11.20 *J. Šafránková, M. Libra, V. Poulek and P. Kouřim*: Autonomous photovoltaic system for night-time lighting
11.20-11.30 *G. Habtay and I. Farkas*: Free convection heat transfer in solar chimney for solar dryer
11.30-11.40 *Sz. Bódi, P. Víg and I. Farkas*: Modelling of hybrid photovoltaic-thermal systems using TRNSYS software
11.40-11.50 *P. Víg and J. Tóth*: Optical effects of water drops at photovoltaic modules
12.15-22.00 LUNCH, VISITING EGER
CULTURAL PROGRAM AND DINNER

May 23 (Friday), Seminary building (SZ 213)

Session 3

Chairman: Prof. M. Libra

08.30-08.50 *Z. Hlaváčková, V. Ardonová, M. Božiková, P. Hlaváč and J. Brindza*: Electrical properties of two types of perga
08.50-09.00 *S. Bartha, F. Carvalho, L.B. Roseiro, B. Vajda, L.C. Duarte*: Ultrasound-assisted extraction of added-value compounds from energy willow bark
09.00-09.10 *A. Petrović, V. Vozárová, J. Csillag, D. Kunecová, M. Bilčík*: Influence of biodiesel blending with gasoline on density
09.10-09.20 *A.O. Sembiring*: Utilization of environmental engineering technology in palm oil agriculture in Indonesia
09.20-09.30 *K. Proc, P. Bulak, M. Pawłowska, A. Kasprzycka, W. Berus, A. Bieganski*: Methane anaerobic digestion of insects breeding residues results in high biogas yields
09.30-09.40 *W. Babiak, M. Czemińska, A. Jarosz-Wilkolazka, I. Krzemińska*: The influence of light intensity and nitrogen availability on the synthesis of exopolysaccharides by *eustigmatos magnus*
09.40-09.50 *J. Tóth, V. Erdélyi, I. Farkas, L. Jánosi*: Hardware-in-the-loop control of a small-scale thermal system
09.50-10.20 COFFEE BREAK