

**The final programme of the 6th PTA Conference
„Research and Innovation in Crop Production”
17-19.09.2015
Krakow, Poland**

| 16.09.2015 - Wednesday | |
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| 18.00-20.00 | Dinner (for attendants staying in the DS III „Oaza” and DS IV „Czwórka”) |
| 17.09.2015 - Thursday | |
| 7.00-8.00 | Breakfast (in your hotels) |
| 8.00-9.00 | Registration – Congress Centre of University of Agriculture in Krakow, Al. 29 Listopada 46 |
| 9.00-9.30 | Official Conference Opening – lectures of the Guest Speakers |
| 9.30-10.00 | <u>Barbara Filipek-Mazur</u> <i>125 years of agricultural studies in Krakow</i> |
| 10.00-10.30 | <u>Andrzej Kotecki</u> <i>Where does Polish agronomy head?</i> |
| 10.30-11.00 | Coffee break |
| PLENARY SESSION I Agroecology and agricultural systems | |
| 11.00-11.20 | <u>Hans-Peter Kaul</u> <i>Tillage effects on plant-soil water relations</i> |
| 11.20-11.35 | <u>Marek Marks</u> <i>Functions and importance of crop rotation in sustainable agriculture</i> |
| 11.35-11.40 | <u>Stefan Martyniuk</u> <i>Does conventional (intensive) agriculture degrade soils?</i> |
| 11.40-11.45 | <u>Janusz Smagacz</u> <i>Economic evaluation of different aspects of land cultivation</i> |
| 11.45-11.50 | <u>Jerzy Grabiński</u> <i>The effect of soil tillage intensity on economic effectiveness of technologies production of spring barley and winter wheat</i> |
| 11.50-11.55 | <u>Maciej Chowaniak, Joanna Puła</u> <i>Changes in the methods of arable land management in the organic farms of south-eastern Poland</i> |
| 11.55-12.00 | <u>Bogumił Rychcik</u> <i>Reaction of rye and triticale for cultivation in integrated or organic system</i> |
| 12.00-12.05 | <u>Grażyna Szymańska, Agnieszka Faligowska, Katarzyna Panasiewicz, Jerzy Szukała, Wiesław Koziara, Karolina Ratajczak</u> <i>Yielding of winter rape cultivated following legumes</i> |
| 12.05-12.20 | <u>Krzysztof Domaradzki, Marek Badowski, Anna Jezierska-Domaradzka, Adam Matkowski, Anna Stochmal</u> <i>The chemical control of invasive weeds on fallow lands based on the example of Fallopia and Solidago species</i> |
| 12.20-12.25 | <u>Irena Suwara, Wojciech Stępień, Katarzyna Pruska, Anna Tymińska</u> <i>Effect of long-term fertilization and crop rotation on weed infestation and the yield of winter triticale</i> |
| 12.25-12.30 | <u>Alina Stachurska-Swakoń, Helena Trzcńska-Tacik, Joanna Puła, Wacław Bartoszek, Beata Barabasz-Krasny, Anna Smolka</u> <i>Phenotypic plasticity of weeds in response to crop density</i> |
| 12.30-12.35 | <u>Joanna Puła, Beata Barabasz-Krasny, Katarzyna Możdżeń, Anna Soltys-Lelek</u> <i>Effect of the aqueous extracts of Stellaria media L. on germination and development of seedlings of Zea mays L.</i> |
| 12.35-12.40 | <u>Renata Kieloch</u> <i>Influence of biostimulant Kelpak SL on winter wheat in terms of chemical protection against weeds</i> |
| 12.40-12.45 | <u>Sebastian W. Przemieniecki, Tomasz P. Kurowski, Krzysztof Krawczyk</u> <i>Usefulness of selected bacterial strains for biocontrol and plant-growth promotion</i> |
| 12.45-13.00. | Discussion |
| 13.00-14.00 | Lunch break |
| 14.00- 14.30 | Poster session |

| PLENARY SESSION II | |
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| Crop production and state of environment | |
| 14.30-14.50 | <u>Luboš Vozár, Peter Kovár, Petra Verešová, Ján Jančovič, Peter Hric</u> <i>Impact of crop production on the environment - new challenge</i> |
| 14.50-15.05 | <u>Grażyna Harasimowicz-Hermann</u> <i>Environmental and agrotechnological productivity conditions and quality yields of selected agricultural plants</i> |
| 15.05-15.20 | <u>Anna Gałązka, Karolina Gawryjolek, Janusz Smagacz</u> <i>Evaluation of the enzymatic activity of soils in three tillage systems based on field experiments</i> |
| 15.20-15.25 | <u>Stanisław Lenart, Wojciech Stępień, Aneta Perzanowska</u> <i>Effect of long-term fertilization, crop rotation and no-tillage system on soil organic carbon and soil physical conditions in the three oldest field experiments in Poland</i> |
| 15.25-15.30 | <u>Ewa Tendziagolska, Piotr Sobkowicz, Roman Waclawowicz</u> <i>The formation of selected soil physical properties affected by interseeded species under organic winter rye cultivation</i> |
| 15.30-15.35 | <u>Barbara Skowera, Joanna Kopcińska, Agnieszka Ziernicka-Wojtaszek, Jakub Wojkowski</u> <i>Precipitation deficiencies and excesses during the growing season selected crops based on the example of the Opole Province (1981-2010)</i> |
| 15.35-15.40 | <u>Grzegorz Sobczyński, Magdalena Wijata, Marcin Studnicki, Stanisław Samborski, Jan Rozbicki</u> <i>Spring wheat grain yield determination by yield components in different environmental conditions</i> |
| 15.40-15.45 | <u>Magdalena Wijata, Grzegorz Sobczyński, Marcin Studnicki, Stanisław Samborski, Dariusz Gozdowski, Jan Rozbicki</u> <i>Effect of environmental conditions and course of weather on yield and grain quality of spring wheat</i> |
| 15.45-15.50 | <u>Roman Waclawowicz, Danuta Parylak, Ewa Tendziagolska, Wiesław Wojciechowski,</u> <i>The changes in soil properties under varying methods of field management of sugar beet residues</i> |
| 15.50-15.55 | <u>Piotr Sobkowicz, Ewa Tendziagolska, Agnieszka Lejman</u> <i>Performance of multi-component mixtures of spring cereals</i> |
| 15.55-16.00 | <u>Agnieszka Lejman, Piotr Sobkowicz</u> <i>Influence of weed harrowing on yield of barley-pea mixture</i> |
| 16.00-16.05 | <u>Katarzyna Pużyńska, Stanisław Pużyński</u> <i>Yielding of cereal-legume mixture in the organic and conventional system</i> |
| 16.05-16.10 | <u>Mariola Staniak</u> <i>Effect of drought stress on the yield and gas exchange parameters of Festulolium barunii (K. Richt.) A. Camus grown in pure sowing or in mixture with Medicago sativa ssp. media (M x varia) Martyn</i> |
| 16.10-16.15 | <u>Anna Jama-Rodzeńska, Władysław Nowak, Józef Sowiński</u> <i>Effect of industrial sewage sludge on the yield of biomass and the content of certain heavy metals in selected clones of willow (Salix viminalis L.)</i> |
| 16.15-16.20 | <u>Jacek Holaj</u> <i>Depreciation costs of means of production in hop cultivation</i> |
| 16.20-16.25 | Commercial presentations of breeding and agro-chemical companies |
| 16.25-16.45 | Poster session, Coffee break |
| 16.45-17.00 | Discussion |
| 17.00-19.00 | Spare time |
| 19.00-23.00 | Conference Dinner |

18.09.2015 Friday

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| 7:00-8:45 | Breakfast (in the hotels) |
| PLENARY SESSION III Agrotechnical factors versus yielding, crop quality and food safety | |
| 9.00-9.20 | <u>Hamouz Karel, Jaromir Lachman</u> <i>Situation and trends in growing of potatoes in the Czech Republic</i> |
| 9.20-9.35 | <u>Janusz Prusiński</u> <i>Winter legumes?</i> |
| 9.35-9.50 | <u>Kazimierz Pyziak, Władysław Koscielniak, Bogdan Kulig, Edward S. Gacek, Andrzej Oleksy</u> <i>Effect of selected agrotechnical factors on the yield of soybean</i> |
| 9.50-9.55 | <u>Marcin Markowicz, Artur Gramatyka, Bogdan Kulig</u> <i>Effect of sowing density on the yield of soybeans in the Top Farms Głubczyce</i> |
| 9.55-10.00 | <u>Wacław Jarecki, Dorota Bobrecka-Jamro</u> <i>Effect of foliar feeding on yield and chemical composition of soybeans</i> |
| 10.00-10.05 | <u>Franciszek Borówczak, Karolina Lenartowicz, Katarzyna Rębarz</u> <i>Influence of irrigation, cultivation technology and nitrogen fertilization on the mass of roots and nodules of pea</i> |
| 10.05-10.10 | <u>Katarzyna Panasiewicz, Agnieszka Faligowska, Grażyna Szymańska, Jerzy Szukała, Hanna Sulewska, Rafał Sobieszcański</u> <i>Influence of irrigation, cultivation technology and nitrogen fertilization on the mass of roots and nodules of pea</i> |
| 10.10-10.15 | <u>Stanisław Grześ, Franciszek Borówczak, Wojciech Pelczyński</u> <i>Effect of sprinkling irrigation, cultivation method and nitrogen fertilization on the yield of sugarbeet</i> |
| 10.15-10.20 | <u>Urszula Prośba-Białczyk, Małgorzata Wilkosz</u> <i>Effect of seed stimulation and foliar fertilization with microelements on change in chemical composition and productivity of the sugarbeet</i> |
| 10.20-10.25 | <u>Wiesław Wojciechowski, Janina Zawieja</u> <i>The role of stubble catch crops grown in accordance with the rules of agri-environmental scheme on yielding of quality spring wheat</i> |
| 10.25-10.30 | <u>Renata Tobiasz-Salach, Robert Warchoń, Dorota Bobrecka-Jamro, Jan Buczek</u> <i>Reaction of oats to foliar fertilisation of plant</i> |
| 10.30-10.35 | <u>Adam Radkowski, Iwona Radkowska</u> <i>Estimation of the silicon utility efficiency in seed-producing crops of timothy grass (<i>Phleum pratense</i> L.)</i> |
| 10.35-10.40 | Commercial presentations of breeding and agro-chemical companies |
| 10.40-11.00 | Poster session, Coffee break |
| 11.00-11.20 | <u>Vladimír Pačuta</u> <i>Crop production and new scientific results in sugar beet in the Slovak Republic</i> |
| 11.20-11.35 | <u>Mariusz Kucharski, Jerzy Sadowski,</u> <i>Effect of nitrogen and sulfur fertilization on the yield and chemical composition of winter rape seeds</i> |
| 11.35-11.50 | <u>Edward S. Gacek</u> <i>Role of the cultivar progres in the modern agriculture</i> |
| 11.50-11.55 | <u>Grażyna Podolska, Edyta Boguszewska,</u> <i>Yielding and seed quality of winter wheat and spelt wheat depending on the intensity of production technology</i> |
| 11.55-12.00 | <u>Alina Syp, Magdalena Borzecka-Walker, Dariusz Osuch</u> <i>Efficiency of winter wheat production in the selected farms of Greater Poland and Silesia regions</i> |
| 12.00-12.05 | <u>Ewa Szpunar-Krok, Kubit Piotr, Dorota Bobrecka-Jamro, Jan Buczek</u> <i>Effect of the method and technology to the chemical composition of the seeds of chickling vetch</i> |
| 12.05-12.10 | <u>Magdalena Borowska, Ewa Kaszkowiak, Janusz Prusiński</u> <i>Impact of sowing method and plant density on the productivity of indeterminate of white lupin cultivar</i> |

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| 12.10-12.15 | <u>Agnieszka Faligowska, Grażyna Szymańska, Katarzyna Panasiewicz, Jerzy Szukała, Wiesław Koziara, Jagoda Strzełińska</u> <i>Influence of sowing method on yielding of two cultivars of yellow lupin</i> |
| 12.15-12.20 | <u>Agnieszka Ostrowska, Michał Dziurka, Agnieszka Klimek-Kopyra</u> <i>Effect of enhanced phosphorous fertilization on the nutritional value of pea, for green feeding</i> |
| 12.20-12.25 | <u>Anna Wondolowska-Grabowska, Elżbieta Skrzyńska, Marcin Kozak</u> <i>The composition of fatty acids in oils plants</i> |
| 12.25-12.30 | <u>Ewa Matyjaszczyk</u> <i>Legal rules and the practice of utilization of microorganisms in plant protection in Poland and the European Union</i> |
| 12.30-12.35 | <u>Janusz Czaban, Alicja Sulek, Barbara Wróblewska</u> <i>Effect of agrotechnical factors on internal colonization of wheat kernels by fungi of the genus Fusarium</i> |
| 12.35-12.40 | <u>Kazimierz Klima, Andrzej Lepiarczyk</u> <i>Effect of combine harvesting on the losses of spring cereal seeds</i> |
| 12.40-12.45 | Commercial presentations of breeding and agro-chemical companies |
| 12.45-13.00 | Discussion |
| 13.00-14.00 | Lunch |
| PLENARY SESSION IV Advanced technologies of crop production, modeling in crop production including climate changes | |
| 14.00-14.20 | <u>Marcin Kozak</u> <i>Projected responses of crops to the climate changes in Poland</i> |
| 14.20-14.40 | <u>Stanisław Samborski</u> <i>Application of variable nitrogen rate in winter wheat with the use of active optical sensors – possibilities and limitations</i> |
| 14.40-14.55 | <u>Zuzanna Jarosz, Antoni Faber</u> <i>Opportunities to reduce greenhouse gasses emissions in the life cycle of biofuels, taking into account indirect changes of land management</i> |
| 14.55-15.00 | <u>Tamara Jadczyzyn, Piotr Ochal</u> <i>Effect of the new technology of cultivation and fertilization on the yield of maize</i> |
| 15.00-15.05 | <u>Elżbieta Leszczyńska, Stanisław Samborski, Dariusz Gozdowski, Michał Stępień, Jan Rozbicki</u> <i>Efficiency evaluation of variable nitrogen fertilization of winter wheat with an active optical sensor</i> |
| 15.05-15.10 | <u>Jerzy Kopiński</u> <i>Efficiency evaluation of variable nitrogen fertilization of winter wheat with an active optical sensor</i> |
| 15.10-15.15 | <u>Krzysztof Geściński, Bożena Barczak</u> <i>Evaluation of the possibility of cereal grains supplementation with the use of selected species pseudocereal</i> |
| 15.15-15.20 | <u>Joanna Groszyk, Stanisław Samborski, Dariusz Gozdowski, Elżbieta Leszczyńska, Jan Rozbicki</u> <i>SPAD value measurement as the indicator of nitrogen and sulphur content in winter wheat leaves</i> |
| 15.20-15.25 | <u>Hanna Gołębiowska</u> <i>The possibilities of bromoxynil application to protect corn against a troublesome weeds of arable land</i> |
| 15:25-15:45 | Coffee break |
| 15.45-16.00 | Poster sessions summary and results of the competition for the best poster in each session |
| 16.00-16.40 | Summary of the conference |
| 16.40-18.00 | Spare time |
| 18.00-19.00 | Conference dinner |
| 19.00-22.00 | Artistic night (performance in the theatre in the historical city center) |

19.09.2015 Saturday - TOURS**1st Option- Krakow, Rynek Underground Museum, Wawel Castle**

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| 6.00-8.00 | Breakfast (in the hotel) |
| 8.30-9.00 | Drive to the historical main market (Krakowski Rynek) |
| 9.20-11.30 | Rynek Underground Museum |
| 11.30-12.00 | Coffee in one of the city's cafe |
| 12.00-14.00 | Stroll through the Royal Route to Wawel Castle, Wawel Cathedral, Treasury House |
| 14:00-15:00 | Lunch and end of the conference |
| 2nd OPTION - Historical Salt Mine in Wieliczka | |
| 6.00-6.45 | Breakfast (in the hotel) |
| 6.45-7.50 | Drive to Wieliczka town |
| 7.50-11.00 | Wieliczka town |
| 11.00-11.45 | Coffee in Wieliczka |
| 11.45-12.15 | Back to Krakow |
| 12.15-14.00 | Wawel, Wawel Cathedral, Treasury House |
| 14.00-15.00 | Lunch and end of the conference |

The name of a speaking person is underlined.

The organizers reserve the right to minor changes in the program due to random reasons beyond their control.