



Poljoprivredni  
fakultet u  
Osijeku



HPA  
HRVATSKA POLJOPRIVREDNA AGENCIJA



# Program

for the 9<sup>th</sup> International  
Symposium on Plant-Soil  
Interactions at Low pH

October 18<sup>th</sup> – 23<sup>rd</sup>, Dubrovnik Croatia



2015  
International  
Year of Soils

## Program for the

### 9<sup>th</sup> International Symposium on Plant-Soil Interaction at Low pH

October 18<sup>th</sup> – 23<sup>rd</sup>, Dubrovnik Croatia

#### October 18<sup>th</sup> Sunday

Arrival  
11:00 Registration  
18:30 Welcome reception

#### October 19<sup>th</sup> Monday

8:00 Registration  
9:00 Openig ceremony  
10:00 Plenary lecture  
14:30 Section 01 – Keynote and short oral presentation  
17:45 Poster presentation – Section 01, Section 02, Section 03

#### October 20<sup>th</sup> Tuesday

8:00 Registration  
9:00 Section 02 – Keynote and short oral presentation  
14:30 Section 03 – Keynote and short oral presentation  
17:50 Section 06 – Keynote and short oral presentation

#### October 21<sup>st</sup> Wednesday

9:00 Mid-Symposium excursion (Ston and Pelješac peninsula)  
18:00 Steering Committe Meeting

#### October 22<sup>nd</sup> Thursday

9:00 Section 04 – Keynote and short oral presentation  
14:30 Section 05 – Keynote and short oral presentation  
16:40 Poster presentation – Section 04, Section 05, Section 06  
18:00 10<sup>th</sup> PSILPH Presentation  
18:30 Closing ceremony  
19:00 Conference dinner

#### October 23<sup>rd</sup> Friday

Departure

## October 18<sup>th</sup> Sunday

11:00 – 18:00	Registration
18:30	Welcome Reception
19:00	Dinner

## October 19<sup>th</sup> Monday

8:00	<b>Registration</b>
9:00 – 10:00	<b>Opening Ceremony</b> <ol style="list-style-type: none"><li>1. Opening Remarks: <i>Leon Kochian</i></li><li>2. Remarks by <i>guests</i> and by organizer <i>Zdenko Lončarić</i></li><li>3. Welcome address by <i>Vlado Guberac</i>, the Dean of Faculty of Agriculture in Osijek</li></ol>
10:00 – 13:00	<b>Plenary lectures</b> Chairpersons: <i>Leon Kochian, Vlado Guberac, Walter Horst</i>  10:00-10:45 <i>Zed Rengel</i> - Acid soils, climate change and greenhouse gas emissions 10:45-11:30 <i>Peter Ryan</i> - Why some plants cope with acid soils better than others: What we know and what we don't 11:30-12:15 <i>Chuanzao Mao</i> - Molecular regulatory mechanisms of phosphate starvation response in rice 12:15-13:00 <i>Jurandir Magalhaes (given by Leon Kochian)</i> - Improving crops for agriculture on acid soils: A molecular breeding perspective
13:00 – 14:30	<b>Lunch</b>
14:30– 17:20	<b>Section 01: Physical, chemical and biological properties of acid soils</b> Chairpersons: <i>Vladimir Ivezic, Danute Karcauskiene, Brigitta Tóth</i>  <b>KEYNOTE PRESENTATIONS</b> 14:30-15:00 <i>Danute Karcauskiene</i> - Effect of pH levels on organic carbon status and soil aggregation  <b>SHORT ORAL PRESENTATIONS</b> 15:00-15:20 <i>Vladimir Ivezic</i> - Total and plant available trace elements in acid and calcareous soils of eastern Croatia 15:20-15:40 <i>Brigitta Tóth</i> - Role of bacteria in Al-toxicity 15:40-16:00 <i>Jurica Jovic</i> - The influence of liming and organic fertilization on microbial activity in the soil 16:00-16:20 <i>Isaiah Wakindiki</i> - Plant-Soil interactions at low pH research in South Africa: A review 16:20-16.40 <i>Paul Chukwudi Oguike</i> - A review of some physico-chemical and biological properties of some acid soils of Southeastern Nigeria 16:40-17:00 <i>Muhammad Yakubu</i> - Physical and chemical properties of the sandy deposits of the semi-arid Sokoto 17:00-17:20 <i>Gregory Lecornet</i> - Modern solution for estimation of available nutrients in soil
17:20 – 17:45	<b>Coffee break</b>
17:45 – 19:00	<b>Poster presentations (Section 01, Section 02, Section 03)</b> Chairpersons: <i>Yuriko Kobayashi, Joanna Siecińska, Krunoslav Karalić</i>
19:00	<b>Dinner</b>

## October 20<sup>th</sup> Tuesday

8:00-9:00 **Registration**

9:00 – 10:30 **Section 02: Physiological and molecular mechanisms of plant adaptation to acid soils**

Chairpersons: *Zed Rengel, Ren Fang Shen, Hong Liao*

### **KEYNOTE PRESENTATIONS**

9:00 - 9:30 *Jian Feng Ma* - Transport and detoxification of manganese in rice

9:30 - 10:00 *Jiping Liu* - AtNIP1;2 is involved in aluminum uptake and root-to-shoot translocation under aluminum stress

10:00-10:30 *Walter Horst* - Physiological and molecular analysis of manganese toxicity and manganese leaf-tissue tolerance in rice (*Oryza sativa*)

10:30 – 11:00 **Coffee break**

11:00 – 13:00 **Section 02: Physiological and molecular mechanisms of plant adaptation to acid soils (Con't)**

Chairpersons: *Jian Feng Ma, Tadao Wagatsuma, Jiping Liu*

### **SHORT ORAL PRESENTATIONS**

11:00-11:20 *Ren Fang Shen* - Enhancement of plants' coadaptation to multiple stresses in acid soils

11:20-11:40 *Tadao Wagatsuma* - Significant role of the plasma membrane lipid bilayers in aluminum tolerance of plants

11:40-12:00 *Tatsuhiko Ezawa* - Arbuscular mycorrhizal fungi provide an alternative pathway of P uptake for Al-damaged roots

12:00-12:20 *Dharmendra Singh* - Localization of aluminium and its toxicity induced alterations in physiological and biochemical traits in lentil

12:20-12:40 *Jon Shaff* - Advances in technologies for growing, imaging, and analyzing 2-d and 3-d root system architecture

12:40-13:00 *Thakuria Dwipendra* - Endophyte bacteria confer habitat-fitness benefits to rice crop in aluminium toxic acid soil

13:00 – 14:30 **Lunch**

## October 20<sup>th</sup> Tuesday

### 14:30 – 17:20 **Section 03: Molecular genetics of plant adaptation to acid soils**

Chairpersons: *Peter Ryan, Miguel Piñeros, Hiroyuki Koyama*

#### **KEYNOTE PRESENTATIONS**

- 14:30-15:00 *Miguel Piñeros* - Different mechanisms modulate the transport activity of the MATE and ALMT-type transporters involved in plant aluminum resistance
- 15:00-15:30 *Shao-Jian Zheng* - Modification of xyloglucan changes Al sensitivity by affecting Al binding capacity in cell wall
- 15:30-16:00 *Hiroyuki Koyama* - STOP1, sensitive to proton rhizotoxicity1, regulating Al and proton tolerant system in Arabidopsis

#### **SHORT ORAL PRESENTATIONS**

- 16:00-16:20 *Jian-Li Yang* - Molecular mechanisms of rice bean (*Vigna umbellata*) in adaptation to acid soils
- 16:20-16:40 *Peter Ryan* - Investigating the transcriptional regulation of aluminium (Al) tolerance genes in triticale (*x Tritosecale*)
- 16:40-17:00 *Aftab Hussain Ishaq Syed* - Physiological and Molecular characterization of pigeonpea (*Cajanus cajan*) for high phosphorus uptake through acid phosphatase activity
- 17:00-17:20 *Dharmendra Singh* - Aluminium tolerance in tomato: Screening techniques and genetic control

### 17:20 – 17:50 **Coffee break**

### 17:50 – 19:00 **Section 06: Soil Acidity Effects on the Food Chain (Food Quality, Nutrition and Human Health)**

Chairpersons: *Zdenko Lončarić, Bal Ram Singh, Tihomir Florijančić*

#### **KEYNOTE PRESENTATIONS**

- 17:50-18:20 *Bal Ram Singh* - Mineral bio-fortification of food crops on acid soils and impact on human health

#### **SHORT ORAL PRESENTATIONS**

- 18:20-18:40 *Neška Vukšić* - Heavy metals concentrations in soil, plants and fallow deer (*Dama dama* L.) tissues
- 18:40-19:00 *Zdenko Lončarić* - Effect of liming on essential and detrimental trace elements transfer into food chain by grains and vegetables

### 19:00 **Dinner**

## October 21<sup>st</sup> Wednesday

### 9:00 – 17:00 **Mid-symposium excursion (Ston and Pelješac peninsula)**

### 18:00 – 19:00 **Sterring Committe Meeting**

### 19:00 **Dinner**

## October 22<sup>nd</sup> Thursday

9:00 – 10:40 **Section 04: Aluminum toxicity, P deficiency, and other acid soil limitations with a focus on their amelioration and remediation**

Chairpersons: *Xiao Fang Zhu, Samuel Gudu, Ivica Đalović*

**KEYNOTE PRESENTATIONS**

9:00-9:30 *Yoko Yamamoto* - Mechanisms of aluminum toxicity and tolerance elucidated by use of cultured tobacco cell lines

9:30-10:00 *Maité-Vicré Gibouin* - Border cells: sentinels for root protection against soil-borne stresses

**SHORT ORAL PRESENTATIONS**

10:00-10:20 *Yan Jin Ying* - A WRKY transcription factor regulates lateral root development and phosphate starvation-mediated responses in Arabidopsis

10:20-10:40 *Jianyong Li* - AtEXPA12 is required for Aluminum tolerance in Arabidopsis

10:40 – 11:00 **Coffee break**

11:00 – 13:20 **Section 04: Aluminum toxicity, P deficiency, and other acid soil limitations with a focus on their amelioration and remediation**

Chairpersons: *Yoko Yamamoto, Anil Kumar, Maité-Vicré Gibouin*

**SHORT ORAL PRESENTATIONS**

11:00-11:20 *Keitaro Tawaraya* - Metabolite profiling of shoot extract, root extracts and root exudates of rice and soybean under phosphorus deficiency

11:20-11:40 *Xiao Fang Zhu* - PARVUS affects aluminum sensitivity by modulating the biosynthesis of glucuronoxylan and aluminum-binding capacity in Arabidopsis

11:40-12:00 *Amy Whitley* - A field survey of aluminium toxicity in New Zealand upland soils varying in parent material and climate

12:00-12:20 *Jim Moir* - Aluminium sensitivity and phosphorus response of twelve forage legumes grown in an acid upland New Zealand soil

12:20-12:40 *Radziah Othman* - Amelioration of aluminum toxicity for rice cultivation in an acid sulfate soil using plant-growth promoting bacteria, ground magnesium limestone and basalt

12:40-13:00 *Ivica Đalović* - Crop production on acid soils: overcoming soil acidity and aluminium toxicity

13:00-13:20 *Anil Kumar* - Sub-soil acidity in red and lateritic soils of India

13:20 – 14:30 **Lunch**

## October 22<sup>nd</sup> Thursday

14:30 – 17:00 **Section 05: Sustainable utilization and management of agricultural, forestry and natural ecosystems on acid soils**

Chairpersons: *Kazuyuki Inubushi, Jusop Shamshuddin, Tatsuhiro Ezawa*

### KEYNOTE PRESENTATIONS

14:30-15:00 *Jusop Shamshuddin* - Acid sulfate soils in Southeast Asia and their utilization for rice cultivation

### SHORT ORAL PRESENTATIONS

15:00-15:20 *Markus Anda* - Soil acidity and toxicity problems attributed by volcanic eruption: their management to support crop growth

15:20-15:40 *Kazuyuki Inubushi* - Phosphorus fertility of low pH soil in upland rice field in Uganda

15:40-16:00 *Milan Mesić* - The Effects of Liming of a Dystric Cambisols in a Period of a 10 Years

16:00-16:20 *Dragana Dražić* - Tree species for biological recultivation by afforestation of open coal pit mines

16:20-16:40 *Velibor Spalević* - Assessment of Sediment Yield in the Tronosa River Basin of Montenegro

16:40-18:00 **Poster presentation (Section 04, Section 05, Section 06)**

Chairpersons: *Maria Nastac, Thakuria Dwipendra, Husejin Keran*

18:00 – 19:00 **10<sup>th</sup> PSILPH presentation and Closing remarks**

**Presentation by the organizers of 10<sup>th</sup> PSILPH**

*Leon Kochian* – **Closing remarks**

19:00 **Conference Dinner**

## October 23<sup>rd</sup> Friday

**Departure**

## Poster section

### Section 01: Physical, chemical and biological properties of acid soils

- P 01-01** *Ai Kawahara, Gi-Hong An, Sachie Miyakawa, Jun Sonoda, Tatsuhiro Ezawa*  
Distribution of acid-tolerant arbuscular mycorrhizal fungi along a soil-pH gradient suggests a role in plant community resilience in acidic soil
- P 01-02** *Angélica Cristina Fernandes Deus, Leonardo Theodoro Büll*  
Limestone and silicates in soil acidity correction in no-till system
- P 01-03** *Mihajlo Marković, Ilija Komljenović, Vlado Kovačević, Vojo Radić, Milana Mišić*  
Soil reaction (pH) and status of mobile phosphorus and potassium in Sava valley area of Bosnia and Herzegovina
- P 01-04** *Jiangfeng You, Xing Liu, Zhenming Yang*  
Seasonal changes in soil acidity and related properties in ginseng artificial bed soils under a plastic shade
- P 01-05** *Vedran Rubinić, Stjepan Husnjak*  
Properties of eluvial and illuvial soil horizons in Croatian Pseudogleys
- P 01-06** *Regina Repsiene, Danute Karcauskiene, Ieva Jokubauskaite, Gintaras Siaudinis, Regina Skuodiene, Kazimieras Katutis*  
Long term liming and manuring effect on soil acidity indicators and crop yield
- P 01-07** *Vladimir Zebec, Domagoj Rastija, Zdenko Lončarić, Meri Engler, Zoran Semialjac*  
Cation exchange capacity of some acid soils in Eastern Croatia
- P 01-08** *Brigita Popović, Zdenko Lončarić, Krunoslav Karalić, Zoran Semialjac, Nina Pećar*  
The potential of organic phosphorus in acidic soils of eastern Slavonia
- P 01-09** *Brigita Popović, Vlado Kovačević, Jurica Jović, Zoran Semialjac, Josipa Jurković*  
The effectiveness of phosphate and liming on acidic soils

### Section 02: Physiological and molecular mechanisms of plant adaptation to acid soils

- P 02-01** *Zhong-Bao Yang, Xiaoyu Geng, Zhaojun Ding, Guangmin Xia*  
The role of phytohormones in mediating Al-induced root-growth inhibition in the apical root zones
- P 02-02** *Toshihiro Watanabe, Eriko Maejima, Syuntaro Hiradate, Jun Wasaki, Mitsuru Osaki, Steven Jansen*  
Physiological variations in aluminum accumulation in different aluminum-accumulator plant species
- P 02-03** *Shuo Liu, Fang-Jie Zhao, Chao-Feng Huang*  
Isolation and Characterization of a rice mutant tolerant to aluminum
- P 02-04** *Maejima Eriko, Watanabe Toshihiro, Wagatsuma Tadao, Osaki Mitsuru*  
Characteristics of root cell components in aluminum-tolerant woody plants
- P 02-05** *Kazutaka Kusunoki, Yuki Nakano, Keisuke Tanaka, Yoichi Sakata, Yuriko Kobayashi, Hiroyuki Koyama*  
Comparative RNA-seq-based transcriptomics of Arabidopsis accessions in response to aluminum rhizotoxicity
- P 02-06** *Mutsutomo Tokizawa, Takuo Enomoto, Yuriko Kobayashi, Yasuomi Tada, Yoshiharu Y Yamamoto, Hiroyuki Koyama*  
Transcriptional regulation of Aluminum tolerance genes by STOP1 transcription factor in *Arabidopsis thaliana*
- P 02-07** *Natalia Budagovskaya*  
Antioxidant induced stimulation of maize plant growth at blockage of calcium channels
- P 02-08** *Joanna Siecińska, Dariusz Wiqcek, Artur Nosalewicz*  
The influence of soil acidity on aluminium and mineral nutrients concentrations in soil solution at different soil water potentials
- P 02-09** *Yuma Takemoto, Naoki Yamaji, Jian Feng Ma*  
OsSultr3;4 expressed at the node is involved in phosphorus distribution in rice
- P 02-10** *Naoki Yamaji, Miho Kashino-Fujii, Kengo Yokosho, Jian Feng Ma*  
Possibility of trade-off between acidic and alkaline soil adaptation in graminaceous plants
- P 02-11** *Pandao Liu, Guodao Liu, Jiang Tian, Hong Liao*  
Characterization of purple acid phosphatases involved in extracellular organic P utilization in *Stylosanthes*



## Poster section

- P 02-12** *Krishnappa Rangappa, Dipjyoti Rajkhowa, Meghna Haloi, Anjan Kumar Sarma, Uday Sanker Saikia, Nishant Anandrao Deshmukh, Shishom Vanao Ngachan*  
Physiological response of buckwheat (*Fagopyrum esculentum* L.) for nutrient management practices in acid soils of eastern Himalayas under climate change
- P 02-13** *Krishnappa Rangappa, Anup Das, Meghna Haloi, Bidyapati Ngangom, Ramkrushna Idapuganti, Jayanta Layak, Savita, Utpal Dey and Shishom Vanao Ngachan*  
Physiological performance of Lentil (*Lens culinaris* L.) varieties under residue management practices in acid soils of eastern Himalayas

### Section 03: Molecular genetics of plant adaptation to acid soils

- P 03-01** *Yuriko Kobayashi, Yuki Nakano, Kazutaka Kusunoki, Satoshi Iuchi, Yoshiharu Y. Yamamoto, Masatomo Kobayashi, Hiroyuki Koyama*  
A genome-wide association study of Aluminum tolerance in *Arabidopsis thaliana*
- P 03-02** *Boris Lazarević, Tomislav Safner, Šimon S., Milan Poljak, Zlatko Šatović, Hrvoje Šarčević*  
Project presentation: Innovative wheat breeding – fast phenotyping and DNA marker assisted selection for improved phosphorus uptake efficiency and aluminium tolerance
- P 03-03** *Dario Iljkić, Mirta Rastija, Vlado Kovačević, Ivana Varga*  
Grain yield and quality of maize hybrids grown on acid soil
- P 03-04** *Matonyei K.T., Samuel Gudu, Ouma E.O., Kisinyo P.O., Ligeyo D.O., Were B.A., Onkwere A.O.*  
The genetic diversity and aluminium toxicity profiles of selected Kenyan maize (*Zea mays* L.) lines for growth in acid soils
- P 03-05** *Ouma E.O., Gudu S., Kisinyo P.O., Ligeyo D.O., Were B.A.*  
Genetic effects of maize P efficiency traits in acid and non-acid soils of western Kenya
- P 03-06** *Yoshiyuki Tsuchiya, Koki Kariya, Takayuki Sasaki, Yoko Yamamoto*  
Transcriptomic analysis of aluminum-tolerant phenotype of a cultured cell line of tobacco (*Nicotiana tabacum* L.)

### Section 04: Aluminum toxicity, P deficiency, and other acid soil limitations with a focus on their amelioration and remediation

- P 04-01** *Tihomir Predić, Dragoja Radanović*  
Phytotoxic effect of aluminium and manganese in barley
- P 04-02** *Chao Wang, Xue Qiang Zhao, Ren Fang Shen*  
The mechanisms of high Al tolerance in *Rhodotorula taiwanensis* RS1
- P 04-03** *Mesquita Filho Manoel Vicente de, Lima Filho Raimundo Moreira, Gomes de Castro Castro Alfred Luciano, Santos Delvico Francisco Marcos dos*  
Chemical and physical characteristics of a sewage sludge from the company of water and sewage sludge south treatment station of Brasilia city
- P 04-04** *Koki Kariya, Yoshiyuki Tsuchiya, Takayuki Sasaki, Yoko Yamamoto*  
An aluminum-induced cell death mechanism involving vacuolar processing enzyme in tobacco
- P 04-05** *Mirta Rastija, Dario Iljkić, Domagoj Rastija, Vlado Kovačević*  
Liming effects on improving acid soil properties
- P 04-06** *Krunoslav Karalić, Zdenko Lončarić, Brigita Popović, Vladimir Ivezić, Meri Engler, Zoran Semialjac*  
The effect of acid soils liming on alfalfa mineral composition change
- P 04-07** *Peter R. Ryan, Mingtan Liao, Emmanuel Delhaize, Gregory J Rebetzke, Chandrakumara Weligama, Wolfgang Spielmeier, Richard A James*  
Early vigour in wheat improves phosphate uptake from P-fixing soils
- P 04-08** *Ren-kou Xu, Jiu-yu Li, Jin-hua Yuan, M.M. Masud, K. Mehmood*  
Some new strategies for amelioration of soil acidity

## Poster section

### Section 05: Sustainable utilization and management of agricultural, forestry and natural ecosystems on acid soils

- P 05-01** *Gianfranco Laccone, Donatello Caruso*  
The analysis of the best practices to soil protection in the EU
- P 05-02** *Larisa Moraes, Adonis Moreira*  
Yield, and nitrogen uptake of sunflower as influenced by nitrogen sources and rates
- P 05-03** *Adonis Moreira, Larisa Moraes*  
Sulfur efficiency application on soybean in two types of Oxisols
- P 05-04** *Maria Nastac, Ticuta Negreanu-Pirjol, Radu Lacatusu, Romeo Capatina, Bogdan- Stefan Negreanu-Pirjol, Karina Gheorghiu, Alina Resteanu*  
Innovative ways for acid soils Dobrogea remediation
- P 05-05** *Nada Parađiković, Monika Tkalec, Tomislav Vinković, Svjetlana Zeljković, Jasna Kraljičak*  
Influence of low soil pH on growth and development of *Gladiolus hybridum* L. in greenhouse
- P 05-06** *Ružica Lončarić, Tihana Sudarić, Domagoj Rastija*  
Economic aspect of liming in Eastern Croatia
- P 05-07** *Ružica Lončarić, Zdenko Lončarić*  
Calculation model: economic effectiveness of organic fertilizers application
- P 05-08** *Ljubica Ranogajec, Ružica Lončarić, Jadranka Deže*  
The economic value of farmyard manure
- P 05-09** *Daniel Haman, Vladimir Ivezic, Zdenko Lončarić*  
Positive legal regulations allowing the establishment and support of alley cropping in the Republic of Croatia
- P 05-10** *Wan Rasidah Kadir, Rozita Ahmad*  
Biomass and nutrient retraction capacity of forest plantation trees grown on tropical acid soil
- P 05-11** *Vladimir Ivezic, Zdenko Lončarić, Domagoj Rastija, Miroslav Periškić, Ivan Bradarić*  
Determining most suitable areas for alley cropping systems by using GIS modelling
- P 05-12** *Prakash Nagabovanalli, MK Akshatha*  
An overview of mechanism of amelioration of acid soils by biochar application

### Section 06: Soil Acidity Effects on the Food Chain (Food Quality, Nutrition and Human Health)

- P 06-01** *Ružica Lončarić, Krunoslav Zmaić*  
Food quality: East Croatia consumers' perceptions and attitudes
- P 06-02** *Jelena Kristić, Jadranka Deže, Ana Crnčan*  
The influence of demographic and socioeconomic factors on youth attitudes about the impact of milk on human health
- P 06-03** *Husejin Keran, Emir Imširović, Besim Salkić, Edina Ibrišimović*  
The influence of pH and organic matter of soil on lead content in soil and fresh plums
- P 06-04** *Mirjana Martić, Darko Kerovec, Meri Engler, Brigita Popović, Krunoslav Karalić, Vladimir Ivezic, Vladimir Zebec, Zdenko Lončarić*  
Biofortification of Fe and Zn in wheat grain on acid and calcareous soils
- P 06-05** *Sanja Miloš, Andrea Gross-Bošković, Dražen Knežević*  
Estimation of safety intake of nitrates from green leafy vegetables in Croatia

**SUNDAY 18<sup>th</sup>**

11:00

**ARRIVAL**

**REGISTRATION**

**WELCOME RECEPTION**

**DINNER**

18:30 19:00

**MONDAY**

9:00	9:30	10:00	10:45	11:30	12:15	13:00	14:30	15:00	15:20	15:40	16:00	16:20	16:40	17:00	17:20	17:45	19:00
REGISTRATION	OPENING CEREMONY	PLENARY LECTURE 01	PLENARY LECTURE 02	PLENARY LECTURE 03	PLENARY LECTURE 04	LUNCH	S 01 KEYNOTE	S 01 O-1	S 01 O-2	S 01 O-3	S 01 O-4	S 01 O-5	S 01 O-6	S 01 O-7	COFFEE BREAK	POSTER PRESENTATION 01-28 (S 1 - 3)	DINNER

**TUESDAY**

9:00	9:30	10:00	10:30	11:00	11:20	11:40	12:00	12:20	12:40	14:30	15:00	15:30	16:00	16:20	16:40	17:00	17:20	17:50	18:20	18:40	19:00
REGISTRATION	S 02 KEYNOTE	S 02 KEYNOTE	COFFEE BREAK	S 02 O-1	S 02 O-2	S 02 O-3	S 02 O-4	S 02 O-5	S 02 O-6	S 03 KEYNOTE	S 03 KEYNOTE	S 03 KEYNOTE	S 03 O-1	S 03 O-2	S 03 O-3	S 03 O-4	COFFEE BREAK	S 06 KEYNOTE	S 06 O-1	S 06 O-2	DINNER

**WEDNESDAY**

9:00

**MID-SYMPIOSIUM EXCURSION (STON AND PELJEŠAC PENINSULA)**

18:00

**STEERING COMMITTEE MEETING**

**DINNER**

**THURSDAY**

9:00	9:30	10:00	10:20	10:40	11:00	11:20	11:40	12:00	12:20	12:40	13:00	13:20	14:30	15:00	15:20	15:40	16:00	16:20	16:40	18:00	18:00	19:00
S 04 KEYNOTE	S 04 KEYNOTE	S 04 O-1	S 04 O-2	COFFEE BREAK	S 04 O-3	S 04 O-4	S 04 O-5	S 04 O-6	S 04 O-7	S 04 O-8	S 04 O-9	LUNCH	S 05 KEYNOTE	S 05 O-1	S 05 O-2	S 05 O-3	S 05 O-4	S 05 O-5	S 05 O-6	POSTER PRESENTATION 29-53 (S 4 - 6)	10 <sup>th</sup> PSILPH PRESENTATION & CLOSING	CONFERENCE DINNER

**FRIDAY 23<sup>rd</sup>**

**DEPARTURE**



## **The 9<sup>th</sup> International Symposium on Plant-Soil Interactions at Low pH**



[www.agroekologija.eu/9thpsilph/](http://www.agroekologija.eu/9thpsilph/)