

ISHS II. European Congress on Chestnut (Debrecen, Baia Mare, Modry Kamen)

Scientific Program

09. October 2013. (Wednesday)

12.00-22.00 Registration (at the lobby of the Hotel Aquaticum, Debrecen)

19.30-19.50: Pre-conference presentation:

VI. INTERNATIONAL CONGRESS ON CHESTNUT 2016-SAMSUN, TURKEY

Ümit Serdar convener

20.00-22.00 Welcome reception (Lecture Hall: Europa)

10. October 2013: Plenary Session (Lecture Hall: Afrika)

- 8.00-8.10: László Radócz: WELCOME SPEECH

- 8.10-8.40: Giancarlo Bounous: PERSPECTIVES AND FUTURE OF CHESTNUT IN EUROPE AND ALL OVER THE WORLD

- 8.40-9.10: Mark L. Double: SUMMARY OF THE V. INTERNATIONAL CONGRESS ON CHESTNUT 2012 (SHEPHERDSTOWN, WEST VIRGINIA USA)

-9.10-9.40: George Melika: THE PEST CHESTNUT GALLWASP (*DRYOCOSMUS KURIPHILUS*): HISTORICAL OVERVIEW OF THE PROBLEM AND OPTIONS FOR CONTROLLING

9.40-10.00. Coffe break

- 10.00-10.30: Daniel Rigling: CHESTNUT BLIGHT FUNGUS AND ITS HYPOVIRUS IN EUROPE

- 10.30-11.00: Stephanos Diamandis: APPLICATION OF BIOLOGICAL CONTROL OF CHESTNUT BLIGHT ON NATIONWIDE SCALE IN GREECE: RESULTS AND PROSPECTS

11.00-12.00 Lunch

12.00- Start to Baia Mare (Romania) chestnut plots (FIELD VISIT)

23.00 arrival to Debrecen

11. October 2013 (Friday)

Session I. (Plant Pathology) (Lecture Hall: Afrika)

Chairman: Stephanos Diamandis

-8.30-8.45: BIOLOGICAL CONTROL OF CHESTNUT BLIGHT WITH HYPOVIRULENCE IN NW SPAIN

Aguín O., Sainz M.J., Moure M.L., Morillo A, Mansilla P.

- 8.45-9.00: THE ERADICATION RESPONSE TO THE INCURSION OF CHESTNUT BLIGHT *CRYPHONECTRIA PARASITICA* IN AUSTRALIA: AN INDUSTRY PERSPECTIVE.

David McIntyre

- 9.00-9.15: SPREAD OF CHESTNUT BLIGHT IN SLOVAKIA IN RELATION TO THE SITE TOPOGRAPHY AND CLIMATIC CHARACTERISTICS

Kobza M., Bolvanský M., Adamčíková K., Ostrovský R.

- 9.15-9.30: CHESTNUT BLIGHT: DIFFERENTIAL RECOVERY OF MARRONS VERSUS NATURALLY GROWING SWEET CHESTNUT TREES IN THE PRESENCE OF HYPOVIRULENT *CRYPHONECTRIA PARASITICA* IN NATURAL CONDITIONS

Mirna Ćurković-Perica, Marin Ježić, Igor Poljak, Ljiljana Krstin, Marilena Idžojtić, Zlatko Liber

-9.30-9.45: NEW DATA OF *CRYPHONECTRIA PARASITICA* (MURR.) BARR SUB-POPULATIONS IN THE CARPATHIAN-BASIN

Gábor Görös, Gábor Tarcali, László Irinyi and László Radócz

-9.45-10.00: BIOLOGICAL CONTROL OF CHESTNUT BLIGHT IN PORTUGAL

Luís Miguel Martins; João Paulo Castro and Maria Eugénia Gouveia

100.00-10.30 Coffee break

Chairman: Daniel Rigling

-10.30-10.45: OCCURRENCES OF CHESTNUT BLIGHT IN KOREA AND EVALUATION OF PREVENTION MEASURES

Sang Hyun Lee, Ji-Hyun Park, Seung Kyu Lee, Sang Tae Seo, Chul Yeong Park, Chong Kyu Lee

-10.45-11.00: FUNGI ASSOCIATED WITH HYPOVIRULENT CANKERS OF DIFFERING AGES ON AMERICAN CHESTNUT

Mark L. Double, Matthew R. Kolp, Andrew M. Jarosz, Anita Davelos Baines, Dennis W. Fulbright and William L. MacDonald

- 11.00-11.15: ASSESSMENT OF *CRYPHONECTRIA PARASITICA* INFECTIVITY ON NUTS OF KOREAN CHESTNUT CULTIVARS

Ji-Hyun Park, Sang Hyun Lee, Uk Lee

-11.15-11.30: SUSCEPTIBILITY OF SOME TURKISH CHESTNUT CULTIVARS TO CHESTNUT BLIGHT

Himmet Tezcan Ümran Ertürk Yaşar Akça

-11.30-11.45: ASSESSING ZOOSPORE *PHYTOPHTHORA* ACTIVITY TO ENHANCE DISEASE MANAGEMENT AND PROMOTE ECOLOGICAL SURVEILLANCE OF CHESTNUT INK DISEASE

E. Gouveia, L. F. Nunes

-11.45-12.00: EFFECT OF DIFFERENT TAXONOMIC ORIGIN ON OCCURRENCE OF LEAF SPOT IN CHESTNUT

Katarina Adamčíková, Milan Bolvanský

Session II. (Tree Physiology) (Lecture Hall: Europa)

Chairman: Roberto Botta

-8.30-8.45: THE ROLE AND SIGNIFICANCE OF POLYPHENOL OF *CASTANEA SATIVA* MILL. LEAF ON SENSORY AND ORGANOLEPTIC PROPERTIES OF FOOD

Huska Jukić; Ibrahim Mujić, Dušan Rudić, Vladimir-Knežević S., Željko Prgomet, Marino Golob, Dajana Travljanin, Martin Golob

-8.45-9.00: CHESTNUT WOOD PHENOLS AS BIO-INDICATORS IN TWO CONTRASTING SITE QUALITY COPPICES

F. Fuente, M. Ciordia, A. Rodríguez, M. Menéndez-Miguélez, E. Canga, J. Majada, I. Feito

-9.00-9.15: SUGAR PROFILES OF CHESTNUT CULTIVARS GROWN IN MARMARA REGION OF TURKEY

Cevriye Mert Arif Soylu

-9.15-9.30: PHOTOSYSTEM II ACTIVITY IN DROUGHT AND HIGH LIGHT CONDITIONS OF *CASTANEA SATIVA* Mill. SAMPLINGS

Svetla Bratanova-Doncheva

-9.30-9.45: CASTANEA SPP. AS PHYTOCHEMICAL SOURCE FOR HERBAL PREPARATIONS

Dario Donno, Gabriele L. Beccaro, Federica Masnari, Gabriella Mellano, Alessandro K. Cerutti, **Giancarlo Bounous**

-9.45-10.00: CLONING OF A NEW SIMPLE SEQUENCE REPEAT AND ITS APPLICATION IN PHYLOGENETIC ANALYSIS AMONG CASTANEA SPECIES AND OTHER RELATED SPECIES

Guanglong Hu, Lili Cheng, Wugang Huang

10.00-10.30 Coffee break

Session III. (Breeding and Selection) (Lecture Hall: Europa)

Chairman: Giancarlo Bounous

-10.30-10.45: GENETIC INTROGRESSION PROGRAM IN ColUTAD. ECOPHYSIOLOGY VERSUS IN DISEASE RESISTANCE

Esteves,R.; Brito, D.; Pinto, T.; Costa, R.; **Gomes-Laranjo, J.**

-10.45-11.00: CHESTNUT FRUIT SITES IN HUNGARY AND HUNGARIAN BRED CHESTNUT VARIETIES

Szentiványi P., Kállay E, Makay M., **Bujdosó G.**

-11.00-11.15: GENETIC DIVERSITY OF EUROPEAN CHESTNUT (*Castanea sativa* Mill.) IN ISTRIA AND PRIMORSKO-GORANSKA COUNTY (CROATIA)

Prgomet I., Torello Marinoni D., Donno D., Prgomet Ž., Mujić I., Beccaro G.L., Bounous G.

-11.15-11.30: THE VARIABILITY OF EUROPEAN SWEET CHESTNUT (*Castanea sativa* Mill.) ACCORDING TO THE LEAF MORPHOLOGY - A METHODOLOGICAL APPROACH

Igor Poljak, Marilena Idžojtić, Marko Zebec

-11.30-11.45: INTEGRATION OF DIFFERENT APPROACHES TO EXPLORE GENETIC AND ADAPTIVE VARIATION OF *Castanea sativa* Mill.: PERSPECTIVES FOR GENE CONSERVATION

F. Villani , C. Mattioni , M.A. Martin, L. M. Martin , M. Cherubini , I. Lusini , P. Pollegioni , F. Chiochini , I. Beritognolo , I Velichkov, L. Paule.

-11.45-12.00: MARKER-ASSISTED SELECTION FOR THE EASY-PEELING PELLICLE TRAIT IN JAPANESE CHESTNUT BREEDING

Nishio S., Takada N., Yamamoto T., Terakami S., Kato H., Saito T.

12.00-13.00 Lunch

Session IV. (Entomology) (Lecture Hall: Afrika)

Chairman: Miklós Tóth

13.00-13.15: IMPACT OF *Dryocosmus kuriphilus* Yasumatsu ON THE LEAF AREA OF *Castanea sativa* TREE

Gehring E., Pezzatti G.B., Krebs P., Conedera M.

13.15-13.30: PRUNING TRIALS TO REDUCE THE IMPACT OF *Dryocosmus kuriphilus* IN CHESTNUT ORCHARDS

Mariotti B., Tani A., Poli I., Maltoni A.

13.30-13.45: DOES THE CHESTNUT GALLWASP, *Dryocosmus kuriphilus* (Hymenoptera: Cynipidae) ALREADY ESTABLISHED IN HUNGARY?

Bujdosó B., Szabó G., Bozsó M., Melika G.

13.45-14.00: CHESTNUT TRANSCRIPTOME NG SEQUENCING: A NEW TOOL TO INVESTIGATE GALL WASP RESPONSE

Dini F., Sartor C., Torello Marinoni D., Botta R.

14.00-14.15: SEMIOCHEMICAL-BASED, NEW, ECOLOGICALLY HARMLESS METHODS FOR MONITORING OF THE CHESTNUT TORTRIX (*Cydia splendana* Hübner)

Jósvai J.K., Tóth M., Voigt E.

14.15-14.30: MONITORING OF SEASONAL FLUCTUATION OF *Cydia splendana* (Hbn) IN CHESTNUT PLANTATIONS OF BURSA, TURKEY

Savaş K.S.C., Cevriye Mert

14.30-15.00 Coffee break

Chairman: George Melika

15.00-15.15: THE OCCURRENCE AND AN UNUSUAL LIFE CYCLE OF *Dryocosmus kuriphilus* Yasumatsu (Hymenoptera: Cynipidae) IN TAIWAN

Tang C-T., Yang M.-M.

15.15-15.30: *Fusarium* spp. ASSOCIATED WITH THE CHESTNUT GALLWASP (*Dryocosmos kuriphilus*) IN CANTABRIA REGION, NORTH SPAIN

Bezos D., De Salvador S., Diez J.J., Fernández M.M.

15.30-15.45: *Dryocosmus kuriphilus* AND NATIVE PARASITOID INTERACTIONS PRIOR TO *Torymus sinensis*' ADVENT

Panzavolta T., Bracalini M., Croci F., Tiberi R.

15.45-16.00: NEW KIDS ON THE BLOCK – INVESTIGATING GALL COMMUNITY ASSEMBLY ON THE CHESTNUT GALLWASP *Dryocosmus kuriphilus*, A RECENT INVASIVE PEST IN EUROPE

Ernst J., Stone G.N., Schönrogge, Pedersen A.

16.00-16.15: DIFFERENCES IN OCCURRENCE OF *Dryocosmus kuriphilus* PARASITOIDS DEPEND ON THE TIME OF CHESTNUT GALLWASP INTRODUCTION TO SLOVENIA AND SPAIN

Jurc M., Mihajlović L., Fernández M.F., Borkovič D.

16.15-16.30: NATIVE PARASITOIDS ATTACKING THE CHESTNUT GALLWASP, *Dryocosmus kuriphilus* (Hymenoptera, Cynipidae) ACROSS ITALY-SLOVENIA-CROATIA-HUNGARY

Melika G., Matošević D., Kos K., Bosio G., Kriston É., Krizbai L., Bozsó M. Csóka G., Péntes Zs. & Quacchia A.

16.30-16.45: *Torymus sinensis*: BIOLOGY, HOST RANGE AND HYBRIDIZATION

Quacchia A., Askew R.R., Moriya S., Schönrogge K.

16.45-17.00: THE ROLE OF *Torymus sinensis* AS BIOLOGICAL CONTROL AGENT OF THE CHESTNUT GALL WASP IN ITALY

Ferracini C., Ferrari E., Saladini M.A., Alma A.

Session V. (Forestry and Orchard Management)

(Lecture Hall:Europa)

Chairman: Mihai Botu

- 13.00-13.15: DAMAGE ANALYSIS IN A COPSE OF CHESTNUT (*CASTANEA SATIVA* MILL.) LOCATED IN MONTI CIMINI AREAS (VITERBO - ITALY), DERIVED FROM WRONG THINNING OPERATION: A CASE STUDY, PROPOSALS FOR THE RECOVERY AND RESTORATION OF COPPICE WOOD

M. PAGANO, M. FEDRIZZI, G. SPERANDIO, MIRKO GUERRIERI, SIMONE BOLLATI, GIANLUCA SABATINI

-13.15-13.30: THE SUPPLY CHAIN OF SWEET CHESTNUT IN SOUTH TYROL

Valérie Bossi Fedrigotti, Christian Fischer

-13.30-13.45: EFFECT OF GRAZING BY NATIVE PIG, GOCHU ASTURCELTA ON VEGETATION IN CHESTNUT COPPICE

M. Ciordia, I. Feito, T. Díaz, L.Tamargo, A. Argamenteira

-13.45-14.00: RESPONSE IN TERMS OF RADICAL INCREMENT AND STAND COVER IN CHESTNUT COPPICE SUBJECTED TO DIFFERENT SYLVICULTURAL TREATMENTS

Manetti MC, Pelleri F, Becagli C, Conedera M, Schleppe P, Zingg A

-14.00-14.15: WATERING CHESTNUT ORCHARDS IN NORTHEAST PORTUGAL

Mota, M., Pinto, T., Marques, T., Borges, A., Raimundo, F., Martins, A., Veiga, V., Caço, J. and Gomes-Laranjo, J.

-14.15-14.30: DESIGN AND IMPLEMENTATION OF A NEW PRODUCTION MODEL TO CHESTNUT, FOR RURAL DEVELOPMENT IN EL BIERZO

RUBIO GUTIÉRREZ, R, GARCÍA-MIRANDA GONZÁLEZ, A.G. y LINARES BARREAL, P.

14.30-15.00 Coffee break

Chairman: Milan Bolvansky

-15.00-15.15: ADDING VALUE TO THE CHESTNUT GROVES BY SOIL INOCULATION WITH *Amanita caesarea* MYCELIUM

A. Daza, M. Camacho, M.J. Grande, L. Romero de la Osa, C. Santamaría

-15.15-15.30: EFFECT OF MYCORRHIZAL FUNGI ON GRAFTED NURSERY PLANT IN CHESTNUT

U. Erturk, Z. Dalkılıç, U. Serdar, G. Cavdar, D. Aybar

-15.30-15.45: A MULTIDISCIPLINARY APPROACH TO PRESERVE AND VALUE THE CHESTNUT HERITAGE

Torello Marinoni D., Sartor C., Ruffa P., Akkak A., Mellano M.G., Beccaro G.L., Bounous G., Botta R.

-15.45-16.00: IMPROVEMENT OF THE PELLICLE PEELABILITY IN JAPANESE CHESTNUT BREEDING

Takada N., Kato H., Nishio S., Saito T.

-16.00-16.15: 'ROMVAL' AND 'CASVAL' – ONE CULTIVAR AND ONE ROOTSTOCK FOR SWEET CHESTNUT

Mihai Botu, Gheorghe Achim, Adrian Baci, Anca Alecu' Ioannis Manthos

-16.15-16.30: RESEARCH ON THE CHANGE OF FRUIT QUALITY CHARACTERISTICS OF CHESTNUTS (*Castanea sativa Mill.*) IN PRE-HARVEST AND POST-HARVEST PERIOD

Esra ERDAL Engin ERTAN

- 16.30-16.45: QUALITY MAINTENANCE AND STORABILITY OF CHESTNUT MANUALLY AND MECHANICALLY HARVESTED

Monarca D., Massantini R., Moscetti R., Cecchini M., Colantoni A., Menghini G., Manzo A., Speranza S.

-16.45-17.00: PROPERTIES OF GLUTEN-FREE CORN PASTA ENRICHED WITH CHESTNUT FLOUR

Antun Jozinović, Indira Kosović, Đurđica Ačkar, Drago Šubarić, Žaneta Ugarčić, Ibrahim Mujić, Tjaša Jug, Marina Krvavica

17.00-18.00 SESSION VI.: Poster Presentations

Moderator: Ursula Heiniger

POSTERS

**1. ASSESSMENT OF LITERFALL IN CHESTNUT FOREST STANDS:
COMPARISON OF TWO SAMPLE METHODS**

Maria S. Patrício, Luís Nunes, Ermelinda L. Pereira

**2. EVALUATING SOIL ORGANIC CARBON AND NUTRIENT STORAGE IN A
SUSTAINABLE FOREST CHESTNUT MANAGEMENT CONTEXT.**

Maria S. Patrício, Luís Nunes, Ermelinda L. Pereira

**3. RESILIENCE OF ECOSYSTEM SERVICES – TEMPORAL ASSESSMENT OF
NATURAL CHESTNUT FORESTS IN BELASITZA MOUNTAIN- BULGARIA**

Svetla Bratanova-Doncheva, Nesho Chipev

**4. PRODUCTION OF NEW ROOTSTOCKS HYBRIDS FOR SWEET CHESTNUT
(*CASTANEA SATIVA*)**

Brito, D.; Esteves, R.; Gomes-Laranjo, J.; Pinto, T.; Costa R.

**5. CHARACTERIZATION OF THE *CRYPHONECTRIA PARASITICA* POPULATION
IN AZERBAIJAN**

D.N. Aghayeva, J. Wall, S. Prospero and D. Rigling

**6. CURATIVE TREATMENT WITH HYPOVIRULENT STRAINS OF CHESTNUT
BLIGHT (*CRYPHONECTRIA PARASITICA*) FUNGUS**

Radócz L., Egyed K., Qin Ling, Bürgés Gy., Tarcali G., Görcsös G.

**7. THE DEVELOPMENT OF VEGETATIVE COMPATIBILITY OF *Cryphonectria
parasitica* IN Modrý Kameň**

K. Adamčíková, G. Juhásová, **M. Kádasi-Horáková**, M. Kobza, E. Ondrušková

**8. MICROSCOPIC FUNGI OF EUROPEAN CHESTNUT STEM AND BRANCHES IN
SLOVAKIA**

Emília Ondrušková, Katarína Adamčíková, Gabriela Juhásová, Marek Kobza

**9. SURVEY OF MICROORGANISMS ASSOCIATED WITH CHESTNUT NUT_ROT
IN STORAGE IN KOREA**

Sang Hyun Lee, Chul Yeong Park, Ji-Hyun Park, Chong Kyu Lee, Uk Lee, Myung Soo Hwang

**10. IMPACT OF *DRYOCOSMUS KURIPHILUS* (YATSUMATSU) ATTACK ON
CHESTNUT COPPICES GROWTH**

Mariotti B, Antonello L, Tani A, **Maltoni A**

11. EFFECTIVENESS OF *TORYMUS SINENSIS* IN THE BIOLOGICAL CONTROL OF *DRYOCOSMUS KURIPHILUS* IN ITALY

Ambra Quacchia, Giovanni Bosio, Seiichi Moriya

12. PRELIMINARY MASS TRAPPING TRIALS TO CONTROL *ZEUZERA PYRINA* L. (LEPIDOPTERA: COSSIDAE) IN CHESTNUT IN HUNGARY

Erzsébet Voigt and Miklós Tóth

13. COMMON GARDEN STUDY OF FLOWERING PHENOLOGY IN TURKISH GERMPLASM OF *CASTENA SATIVA* MILL.

Isacco Beritognolo*, Marcello Cherubini, Claudia Mattioni and **Fiorella Villani**.

14. MICROSATELLITE POLYMORPHISM REVEALS GEOGRAPHICAL STRUCTURE OF *CASTENA SATIVA* EUROPEAN POPULATIONS: EVIDENCE FOR MULTIPLE GLACIAL REFUGIA AND HYPOTHESIS OF COLONIZATION ROUTES

C. Mattioni, M.A. Martin, F. Chiocchini, P. Pollegioni, I. Lusini, M. Cherubini, L. Paule, I Velichkov, G. Hinkov, T. Zlatanov, **F. Villani**

15. SERCAST- LEARNING THE PRODUCERS FROM SERNANCELHE'S COUNCIL HOW TO INCREASE THE CHESTNUT PRODUCTIVITY

Gomes-Laranjo, J., Raimundo, F., Ferreira-Cardoso, J, Portela, E, Pinto, T. , Anjos, R. , Marques, G., Oliveira P, Moura, J.P, Arnaldo, P, Martins, L. and Matos S.

19.00-24.00 GALA DINNER

12. October 2013: (Saturday)

-8.30-23.00: Field excursion to Nagymaros (Hungary) and Modry Kamen (Slovakia) chestnut plots

www.chestnutdebrecen.eu

