

RAGUSA SHWA 2012

International Conference

***“Safety Health and Welfare in Agriculture
and in Agro-food Systems”***

September 3-6, 2012

Giornata di Studio

ACCADEMIA DEI GEORGOFILI

***La Sicurezza nella Filiera Viticola - Enologica
Safety Health and Welfare in Wine Growing***

September 3, 2012

Workshop – International WMSDs Network Meeting

“WMSDs in Agriculture”

September 3, 2012

ACCADEMIA DEI GEORGOFILI

***Riunione Comitato Prevenzione e Sicurezza
Meeting of Prevention and Safety Committee***

September 3, 2012

Full Professor AGR 09 Meeting

September 4, 2012

Short Symposium – International Dairy Consortium Meeting

***“Occupational and Environmental Health Issues in Dairy Production:
International Perspectives”***

September 5, 2012

Giornata di Studio

ACCADEMIA DEI GEORGOFILI

La Sicurezza nella Filiera Viticola - Enologica

Safety Health and Welfare in Wine Growing

September 3, 2012

Programma

8.30-13.00	Registrazione
Room	Cerimony Hall
9.30	Cerimonia di Apertura, Saluti delle Autorità
Chairperson	<i>Piccarolo Pietro - CIGR V Past President</i> Presidente del Comitato per la Salute e la Sicurezza
10.00-12.30	<i>Introduzione al tema - Prof. Giampaolo Schillaci - UNICT</i>
	<i>Prof. Marco Vieri - UNIFI</i> <i>Rischi per gli Operatori e per l'Ambiente</i> <i>Durante i Trattamenti nel Vigneto</i>
	<i>Prof. Rino Gubiani - UNIUD</i> <i>Rischi negli Stabilimenti Enologici</i>
	<i>Prof. Danilo Monarca - UNITUS</i> <i>Microclima e Salute per gli Addetti alla Filiera Vitivinicola</i>
	<i>Prof. Enrico Occhipinti - EPM-UNIMI</i> <i>Il Rischio da Sovraccarico Biomeccanico in Agricoltura</i>
	<i>Dott. Cinzia Aimone – ARES srl</i> <i>Il Ruolo dell'Informazione e della Formazione e i Nuovi</i> <i>Strumenti Visuali per la Sensibilizzazione e la Partecipazione</i> <i>dei Lavoratori alla Sicurezza e Salute in Agricoltura</i>
12.30-13.00	<i>Dibattito</i>
13.00-14.15	<i>Light Lunch</i>

RAGUSA SHWA 2012

September 3, 2012

First Communication (Hall 1, 14.15)

*Prof. Dr. Claus Aage Grøn Sørensen
C.I.G.R. Activities Concerning Safety, Health and Welfare
in Agriculture and Agro-food Systems*

Lectio Magistralis (Hall 1, 14.30-16.30)

Chairperson – Claus Aage Grøn Sørensen Pres. CIGR V

*Dr. Joerg Hartung University of Hannover
Poultry production in 2020 - Developments in Technology, Animal
Health and Welfare*

*Prof. William Field Purdue University
Assistive Technologies Restore Orchard Growers Independence*

*Dr. John Rosecrance University of Colorado
Ergonomic Challenges in Dairy Farming and Production*

*Dr. Iver Thysen - Danish Agency of Science, Technology and Innovation
Robotic Helps to Achieve High Level of Safety Health and Welfare in Agriculture*

Main Communications (Hall 1, 16.30-17.20)

*Prof. Peter Lundqvist
A Report from the Nordic Meeting on Agricultural
Occupational Health and Safety in Sweden*

*Dr. Sandro Liberatori
The Activities of ENAMA related to Safety, Health and Welfare
in Agriculture and Agro-food Systems*

*Prof. Danilo Monarca
The Activities of AIIA Related to Safety, Health and Welfare
in Agriculture and Agro-food Systems*

*Prof. Daniela Colombini
The Activities of the International Network on WMSDs in Agriculture*

*Prof. Remigio Berruto
The CIGR Logistic Working Group and Next EFITA/INFITA/CIGR Conference*

*Prof. Francesca Tosi
Ergonomics and SHWA Aspects: a New Link*

Typical Sicilian Dinner (20.30)

Workshop – International WMSDs Network

“WMSDs in Agriculture”

September 3, 2012

Hall 2, 14.30-16.30

Chairperson – Daniela Colombini EPM Milan

Del Rosso A., Malcangi N., Di Leone

***The Biomechanical Overload of The Muscle Skeletal System
in the Flowers Culture***

*Montomoli L., Colombini D., De Stefano R., Coppola G., Sarrini D., Mancini R.,
Bastianini L., Savini S., Sartorelli P.*

***Prevalence of Upper Limb Work-Related Musculoskeletal Disorders
in a Population of Vine and Olive Growers***

Camillieri D., Colombini D., Schillaci G.

***First Evaluation of The Risk from Repetitive Movements in Greenhouse Nurseries:
Annual Cycle and Multitask Analysis***

Cerbai M., Placci M.

***Repetitive Movements of the Upper Limbs in Agriculture: Evaluation – Through
OCRA Check List of Working Activities – of Occupational and Personal Exposure in
the Short Trunk Peach Culture***

Malcangi N., Del Rosso A., Di Leone G.

***The Biomechanical Overload of the Muscle Skeletal System
in the Sector of Table Grapes***

RAGUSA SHWA 2012

“Safety Health and Welfare in Agriculture and in Agro-food Systems”

International Conference

September 4 2012, Tuesday	
	Activity
9.00-13.00	Registration
09.00-11.00	Parallel Sessions (topic 6 – 3)
11.00-11.30	<i>Coffee Break</i>
11.30-13.00	Parallel Session (Topic 6 Short Symposium – Topic 5 Short Symposium)
13.00-14.45	<i>Light Lunch</i>
14.45-16.15	Parallel Session (Topic 1 Short Symposium –Topic 7 - 4)
16.15	Full Professor AGR 09 Meeting
20.30	<i>Mediterranean Aperitifs and Free Time Along the Beach</i>
September 5 2012, Wednesday	
9.00-13.00	Registration
9.30-11.00	Parallel Sessions (Topic 8 – Meeting International Dairy Consortium)
11.00-11.30	<i>Coffee Break</i>
11.30-13.00	Plenary Session (Topics 8 Short Symposium – Topic 2 - 9)
13.00-14.45	<i>Light Lunch</i>
14.45-15.45	Poster Session
15.45	Final Debate Plenary Session Final Statement and Closure Ceremony
20.30	<i>Farewell Party and Performances</i>
September 6 2012, Thursday	
09.00	Technical Tour
13.00	<i>Light Lunch</i>
15.00	Departure for Catania Airport

FULL PROGRAMME

September 4, 2012	
<i>Registration (09.00-13.00)</i>	
Room Lecture Hall 1	Room Lecture Hall 2
Chairperson	
Monarca D.	Bisaglia C.
Topic 6 “Noise, Vibration, Dust, Endotoxin, Microorganism” <i>Oral Presentations (15 min)</i> 9.00-11.00	Topic 3 “Instrumentation, Equipment, Periodic Procedures and Tests” <i>Oral Presentations (15 min)</i> 9.00-11.00
<i>Aiello G., Catania P., La Scalia G., Pipitone F., Vallone M.</i> A novel device for assessing the health risk caused by hand-arm vibrations in olives harvesting	<i>Ayers P., Davis, G., Yantis J., Kerrigan, S.</i> Improving ROPS designs for agricultural tractors
<i>Cecchini M., Guerrieri M., Colantoni A., Monarca D., Bedini L., Cavariani F., De Rossi M., Fedrizzi M., Pagano M.</i> A device for dust reduction during mechanized harvesting of hazelnuts	<i>Bisaglia C., Cutini M., Romano E., Mastrangelo S., Marcolin F., Sensibile G.</i> INTRAC: A research project on the integration of safety elements with ergonomics in the design of agricultural machinery
<i>Fedrizzi M., Pagano M., Perrino C., Recchi P., Biocca M., Gallo P.</i> Self-propelled prototype for hazelnuts harvesting (Corylus avellana L.): analysis of particulate matter emitted into the atmosphere	<i>Cerruto E., Manetto G., Balloni S., Caruso L.</i> A recycling tunnel to reduce environmental drift in spraying goblet vineyards
<i>Manetto G., Cerruto E., Emma G.</i> Noise operator exposure in olive oil mills	<i>Gattamelata D., Laurendi V., Pirozzi M., Vita L., Puri D., Fagnoli M.</i> Development of a compact roll over protective structure for agricultural wheeled narrow track tractors
<i>Mattetti M., Molari G., Guarnieri A.</i> Prediction of whole body vibration through a multibody model of a tractor seat	<i>Gattamelata D., Laurendi V., Vita L., Fagnoli M.</i> Roll over risk analysis for agricultural self-propelled ride-on machines
<i>Nardini G., Lori V., Paroncini M., Candido D., Della Pasqua M.</i> Risk due to noise during the olive harvest: the electrical and pneumatic harvesters	<i>Gushchinsky A. G., Galchenko M. I.</i> Human reliability at electrical equipment service on agroindustry companies

<i>Nardini G., Lori V., Paroncini M., Candido D., Della Pasqua M.</i>	<i>Provolo G., Grimaldi D., Riva E.</i>
Risk assessment due to transmission of vibrations from olive electrical and pneumatic harvesters to the Hand-Arm System (HAV):definition and evaluation of levels and exposure time	Environmental assessment of livestock farms: a comparison of different methods to estimate emissions to air
Coffee Break (11.00-11.30)	
Room Lecture Hall 1	Room Lecture Hall 2
Topic 6 Short Symposium “Noise, Vibration, Dust, Endotoxin, Microorganism” <i>Oral Presentations (12 min) and Final Debate</i> <i>11.30-13.00</i>	Topic 5 Short Symposium “Automation, Remote Control, Robot and Innovative Vehicle” <i>Oral Presentations (12 min) and Final Debate</i> <i>11.30-13.00</i>
Chairperson	
Deboli R.	Muscato G.
<i>Fanigliulo R., Fornaciari L., Vassalini G., Biocca M., Brannetti G., Cervellini C., Pochi D.</i>	<i>Berruto R., Busato P.</i>
Main safety aspects of agricultural machinery: management of control tests on noise emitted according to EN ISO/IEC 17025:2005	Expert system with cloud database for optimal management of Fruit and Vegetable traceability
<i>Manetto G., Cerruto E., Schillaci G.</i>	<i>Comba L., Gay P., Ricauda Aimonino D.</i>
Vibration operator exposure during olive harvesting	Automation and robotics for workers health and safety improvements in pot-plant nurseries
<i>Marucci A., Pagniello B., Monarca D., Colantoni A., Biondi P., Cecchini M.</i>	<i>Longo D., Muscato G., Schillaci G.</i>
The heat stress for workers during vegetable grafting in greenhouses	Design of a remotely operable sprayer for precision farming application
<i>Pessina D., Facchinetti D.</i>	<i>Mazzetto F., Gallo R., Vidoni R., Bisaglia C., Calcante A.</i>
Improving vibration comfort on modern crawler tractors	Designing and testing a new small tractor prototype for the mechanisation of terraced-vineyard farming systems in South-Tyrol
<i>Vello M., Cividino S.R.S., Gubiani R., Pergher G., Colantoni A.</i>	<i>Schillaci G., Pennisi A., Franco F., Longo D.</i>
Safety at the workplace in the grafted cuttings production: first results of a study in Friuli-Venezia Giulia (North East of Italy)	Detecting tomato crops in greenhouses using a vision based method
Light Lunch (13.00-14.45)	

Room Lecture Hall 1	Room Lecture Hall 2
<p align="center">Topic 1 Short Symposium “WMSDs Work related Musculo-Skeletal Disorders <i>Oral Presentations (12 min) and Final Debate</i> 14.45-16.15</p>	<p align="center">Topic 7 “Occupational Health” Topic 4 “Safety Health and Welfare in Building” <i>Oral Presentations (15 min)</i> 14.45-16.15</p>
Chairperson	
Field W. E.	Quendler E.
<i>Colantoni A., Monarca D., Bedini R., Marucci A., Pagniello B., Cecchini M.</i> Vegetable grafting in greenhouses: the risk of musculoskeletal disorders for workers due to repetitive movements of upper limbs	<i>Camillieri D., Caruso L., Colombini D., Rapisarda V., Schillaci G.</i> First evaluation of the risk from repetitive movements in greenhouse nurseries: annual cycle and multitask analysis
<i>Geng Q., Salomon E., Field W. E.</i> Exposure to risk of musculoskeletal injury and over exertion during cattle handling cattle in open areas	<i>Consorti S.B., Ricci A.</i> Work related stress in horticultural nursery: risk assessment and identification of the preventive measures
<i>Romano E., Camillieri D., Bonsignore R., Rapisarda V., Schillaci G.</i> Analysis of stress produced during manual pruning in Vineyard: the study of anthropometric parameters	<i>Mayrhofer H., Quendler E., Boxberger J.</i> Occupational Accidents with self-propelling machinery in Austrian Agriculture – A Comparative Analysis of Tractors, Self-Propelling Harvesting Machinery and Hauling Machinery
<i>Field W.E., Riedel S.M.</i> Estimation of the frequency, severity, and primary causative factors associated with injuries and fatalities involving confined spaces in agriculture	<i>Waberer M., Quendler E.</i> Horticultural therapy for burnout patients at farms
<i>Murgia L., Rosecrance J.C., Gallu T., Paulsen R.</i> Risk evaluation of upper extremity musculoskeletal disorders among cheese processing workers: A comparison of exposure assessment techniques	<i>Checchi A., Casazza S.</i> Risk factors in the wine industry
Full Professor AGR 09 Meeting	
<i>Mediterranean Aperitifs and Free Time Along the Beach (20.30)</i>	

September 5, 2012	
<i>Registration (09.30-13.00)</i>	
<i>Room Lecture Hall 1</i>	<i>Room Lecture Hall 2</i>
Topic 8 “Environment Safety and People Health Protection and Welfare” <i>Oral Presentations (15 min)</i> <i>09.30-11.00</i>	Short Symposium “Occupational and Environmental Health Issues in Dairy Production : International Perspectives” <i>Oral Presentations (12 min) and Final Debate</i> <i>09.30-11.00</i>
Chairperson	
Marco Vieri	Rosecrance J.
<i>Balsari P., Oggero G.</i> Management of pesticide distribution remnants in italian glasshouses and vineyards	Rosecrance, J. Overview of International Dairy Consortium: Members, Mission and Goals
<i>Catania P., Salvia M., Argento F., Alleri M., Vallone M.</i> Revegetation through hydroseeding in degraded mediterranean areas	<i>Douphrate, D., Rosecrance J.</i> Ergonomic exposure assessment of posture and muscle activity among dairy parlor workers in US large herd operations
<i>Fontanelli M., Raffaelli M., Martelloni L., Frasconi C., Peruzzi A.</i> Innovative strategy and machines for non chemical management of weed seed-bank and actual spontaneous flora in turf grass	<i>Field W.E., Field E.K., Albright J.L.</i> Bull-Related Attacks – An Owner’s Potential Liability
<i>Nardini G., Paroncini M., Candido D., Della Pasqua M.</i> Implementation of a system for evaluation risk and management safety in an Italy farm	<i>Hagevoort R., Douphrate D., Rosecrance J.</i> Changes in the US dairy industry require development of comprehensive employee training and safety programs
<i>Sasaki K., Fukuda M.</i> Technique for monitoring vitamin B2-rich vegetables	
<i>Coffee Break (11.00-11.30)</i>	

<p>Topic 8</p> <p>Short Symposium</p> <p>“Environment Safety and People Health Protection and Welfare”</p> <p><i>Oral Presentations (12 min) and Final Debate</i></p> <p><i>11.30-13.00</i></p>	<p>Topic 2</p> <p>“Machine Milking, Animal Welfare, Work Organisation”</p> <p>Topic 9</p> <p>“Socio-Economic Aspects and Welfare</p> <p><i>Oral Presentations (15 min)</i></p> <p><i>11.30-13.00</i></p>
<p>Chairperson</p>	
<p>Peruzzi A.</p>	<p>Lundqvist P.</p>
<p><i>Ade G., Martelli R., Lanzoni A., Radeghieri P., Pezzi F.</i></p> <p>Foliar application of nematodes for noctuid moths control in spinach</p>	<p><i>Caria M., Boselli C., Murgia L., Rosati R., Pazzona A.</i></p> <p>Effect of different vacuum levels on buffalo milking</p>
<p><i>Failla S., Manetto G., Restuccia A.</i></p> <p>Organic Plant Protection Treatments in Greenhouse and Open Field by an Electrical Prototype</p>	<p><i>Mazzetto F., Gallo R., Sacco P.</i></p> <p>A farm configuration system to supply LCA inventory analysis needs for the assessment of orchard performances</p>
<p><i>Guanieri A., Maini S., Molari G., Rondelli V.</i></p> <p>Development perspectives of electronic systems in pest control strategies</p>	<p><i>Alwall Svennefelt C., Lundqvist P.</i></p> <p>Migrant workers in Swedish agriculture and horticulture Part 1: Perspectives of employers</p>
<p><i>Raffaelli M., Fontanelli M., Martelloni L., Frasconi C., Peruzzi A.</i></p> <p>Innovative strategy and machines for physical weed control in agriculture and urban areas</p>	<p><i>Auger J., Arnault I., Assegond C., Sitnikoff F., Michau N., Alber A., Zimmermann M., Moreau S., Monmarché N., Tétart G.</i></p> <p>Recent changes in agriculture practices, an acceptability conditions survey</p>
<p><i>Sarri D., Rimediotti M., Vieri M.</i></p> <p>Appropriate devices choice for the application of low environmental impact of pesticides in agriculture and urban areas</p>	<p><i>May D. E., Paratori S.</i></p> <p>Understanding farmers’ willingness to produce healthy and safe products</p>
<p><i>Light Lunch (13.00-14.45)</i></p>	
<p><i>Poster Session (14.45-15.45)</i></p>	
<p><i>Researchers, Researches and Collaborations (15.45-16.30)</i></p>	
<p><i>Plenary Session – Final Statement and Closures Ceremony (15.45)</i></p>	
<p><i>Farewell Party and Performances (20.30)</i></p>	

September 6, 2012

Technical Tour

(09.00)

Light Lunch

(13.00)

Departure for Catania Airport

(15.00)