

# 20<sup>th</sup> International Meeting GiESCO 2017

Mendoza, November 5<sup>th</sup> - 10<sup>th</sup>

Organized by



**UNCUYO**  
UNIVERSIDAD  
NACIONAL DE CUYO



Instituto Nacional de  
Tecnología Agropecuaria



INSTITUTO NACIONAL  
DE VITIVINICULTURA



CORPORACION VITIVINICOLA  
ARGENTINA

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Chaire UNESCO  
Culture et Traditions du Vin



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## PROGRAM

### Sunday November 5th

Where? LA ENOTECA DE MENDOZA

Time	Title/Activity	Speaker	Afiliación
18:30 - 21:00	WELCOME, REGISTRATION & INTRODUCTORY TALKS		
18:00 - 20:00	Registration		
<b>Session: Institutional and some Grape&amp;Wine Statistics</b>			
18:30 - 19:00	Organizing Institutions: GiESCO, UNCUYO, INV, COVIAR, INTA		
19:00 - 19:20	Conference: World Wine Industry Figures	Jean-Marie Aurand	OIV
19:20 - 19:40	Conference: Argentine Wine Industry Figures	Claudia Quini	INV
19:40 - 21:00	Welcome Cocktel provided by the FONDO VITIVINÍCOLA DE MENDOZA		

# Monday November 6th

Where? NAVE UNIVERSITARIA

Time	Title/Activity	Speaker	Country
07:30 -	Registration + Aperture + Posters Installation		
08:30 08:45	International Meeting Aperture		
08:45 -10:30	<b>Session: CLIMATE CHANGE</b>		
08:45 -09:00	Chairperson: <b>Hervé Quenol</b>		
08:45 -09:15	Conference: Climate change and water resources along the Andes: Challenges and opportunities	Ricardo Villalba	Argentina
09:15 -09:30	Determinants of adaptation of grapevine to an evolving climate: hydrological conditions and cultivars biodiversity	De Lorenzi, Francesca	Italy
09:30 -09:45	Downscaling future climate scenarios to vineyard scale	Le Roux, Renan	France
09:45 -10:00	Vulnerability and adaptation responses of climate variability in the Southern Wine Region of Uruguay	Fourment, Mercedes	Uruguay
10:00 -10:15	Trends in climate parameters related to winegrape production in North Greece and viticultural consequences	Koundouras, Stefanos	Greece
10:15 -10:30	Physiological and yield performance of <i>Vitis vinifera</i> L. Cvs. (Riesling and Cabernet Sauvignon) under free air carbon dioxide enrichment (FACE)	Wohlfahrt, Yvette	Germany
10:30 -11:00	<b>COFFEE BREAK + POSTERS</b>		
11:00 -13:00	<b>Session: SUSTAINABILITY + ZONING</b>		
	Chairperson: <b>Jean-Jacques Lambert</b>		
11:00 -11:15	Organic and biodynamic viticulture: a systematic review and meta-analysis	Stoll, Manfred	Germany
11:15 -11:30	Economic Sustainability of Canadian Grape Industry. A Comparative Analysis of Okanagan Valley and Niagara Peninsula	Balint, Gabriel	Canada
11:30 -11:45	A comparison of nonchemical weed management practices on vine growth, productivity, and undervine vegetation and microbial ecosystems	Krasnow, Mark	New Zealand
11:45 -12:00	Integrating climate and satellite remote sensing to assess the reaction of <i>Vitis vinifera</i> L. cv to a changing environment in the western Cape, South Africa	Southey, Tara	South Africa
12:00 -12:15	Viticultural suitability of São Joaquim, Santa Catarina state, Brazil	Santos, Erico	Brazil
12:15 -12:30	Bioclimatic zoning of Argentinean Malbec grape production	Cabré, Fernanda	Argentina
12:30 -12:45	Temperature variability at local scale in a mountain vineyard	Deresseguier, Laure; Laveau, Coralie	France
12:45 -13:00	Buffer or shared time between a short session introduction and/or closure		
13:00 -14:30	<b>LUNCH + POSTERS</b>		
14:30 -16:30	<b>Session: BREEDING, VARIETIES, CLONES AND ROOTSTOCKS</b>		
	Chairperson: <b>Claudio Moser</b>		
14:30 -14:45	Exploring grapevine genetic diversity to feed breeding programs to sustain wine viticulture facing warming issues	Torregrosa, Laurent	France
14:45 -15:00	Selection of <i>Vitis vinifera</i> L. intraspecific hybrids for obtaining wines with high phenolic content	Gómez-Plaza, Encarna	Spain
15:00 -15:15	Characterization of different south american varieties: yield components, maturity dynamics, berry and wine composition	Prieto, Jorge A.	Argentina
15:15 -15:30	Simple trait measurements across rootstock genotypes indicates performance as field grown, grafted vines	Clingeffer, Peter	Australia
15:30 -15:45	Differential expression of susceptible and tolerant grape cultivars on black rot infection	Deák, Tamás	Hungary
15:45 -16:00	Vines without input for quality wines: what results and what perspectives for the French vineyard?	Ojeda, Hernán	France
16:00 -16:15	Classification of wine grape cultivars according to their susceptibility to <i>Botrytis cinerea</i> : importance of fruit maturity	Pañitru, Carolina	Chile
16:15 -16:30	Buffer or shared time between a short session introduction and/or closure		
16:30 -21:30	<b>VISIT TO FCAUNCUYO AND INTA</b>		
16:30 -17:00	Travel and Vineyards Visit - EEA MZA INTA y FCAUNCUYO		
17:00 -19:30	VISIT TO FCAUNCUYO AND INTA		
19:30 -21:00	Dinner at INTA Experimental Station		
21:00 -21:30	Return to Mendoza		

## Tuesday November 7th

Where? NAVE UNIVERSITARIA

Time	Title/Activity	Speaker	Country
<b>08:30 - 10:30</b>	<b>Session: VINE PHYSIOLOGY</b>		
	<b>Chairperson: Hipólito Medrano</b>		
08:30 - 09:00	Conference: Considerations about the irrigated oases of Mendoza	Morábito, José	Argentina
09:00 - 09:15	Grape ripening: why berry transpiration and xylem backflow matter	Keller, Markus	USA
09:15 - 09:30	Effects of grapevine leafroll associated virus 2 infection on leaf net photosynthesis, yield and berry quality in <i>Vitis vinifera</i> cv. Malbec	Gomez Talquenca, Sebastián	Argentina
09:30 - 09:45	Towards a better understanding of complex mechanisms involved in adaptation of rootstock to drought	Marguerit, Elisa	France
09:45 - 10:00	Impacts of water stress on plant hydraulics, gas exchange, berry composition and quality of Pinot Noir wines in Switzerland	Zufferey, Vivian	Switzerland
10:00 - 10:15	Morpho-anatomical and hydraulic traits relationships between three grapevine varieties from a commercial vineyard in Chile	Villalobos-González, Luis	Chile
10:15 - 10:30	Buffer or shared time between a short session introduction and/or closure		
<b>10:30 - 11:00</b>	<b>COFFEE BREAK + POSTERS</b>		
<b>11:00 - 13:00</b>	<b>Session: VINE PHYSIOLOGY</b>		
	<b>Chairperson: Thierry Simonneau</b>		
11:00 - 11:15	Study of the carbon budget of a vineyard in northern Italy: partitioning and interannual variability	Vendrame, Nadia	Italy
11:15 - 11:30	Can the post-véraison grape berry metabolize tartaric acid?	Rienth, Markus	Switzerland
11:30 - 11:45	Locally applied high air temperature significantly altered grape berry physiology and composition	Gouot, Julia	Australia
11:45 - 12:00	Effect of naturalized rootstocks on growth and physiology of Syrah and Cabernet Sauvignon under water deficit	Zurita, Andrés	Chile
12:00 - 12:15	Sugar metabolism mediates freezing tolerance in grapevines: novel approach and recent advances	Dami, Imed	USA
12:15 - 12:30	The interaction between biotic (virus) and abiotic (drought) stresses in grapevine	Bota, Josefina	Spain
12:30 - 12:45	Grapevine age: impact on physiology and berry development	Bou Nader, Khalil	Germany
12:45 - 13:00	Buffer or shared time between a short session introduction and/or closure		
<b>13:00 - 14:30</b>	<b>LUNCH + POSTERS</b>		
<b>14:30 - 16:30</b>	<b>Session: VINEYARD MANAGEMENT</b>		
	<b>Chairperson: Marc Greven</b>		
14:30 - 14:45	The potential for using under-vine cover crops as an alternative to herbicides in cool climate vineyards	Vanden Heuvel, Justine	USA
14:45 - 15:00	Anthocyanins and trans-resveratrol accumulation is associated with abscisic acid and methyl jasmonic acid in berry skin of <i>Vitis vinifera</i> L. cvs. Malbec, Bonarda, Syrah, Cabernet sauvignon, and Pinot noir	Malovini, Emiliano	Argentina
15:00 - 15:15	Vineyard water status assessment by non-destructive, proximal, NIR spectroscopy vineyards	Diago, María Paz	Spain
15:15 - 15:30	Harvest ripeness has a larger effect than leaf removal on grape and wine quality in cv. Cabernet Sauvignon from Maipo Valley	Vargas Soto, Sebastián	Chile
15:30 - 15:45	Novel and low cost approach to estimate light radiation inside a canopy	Brandt, Melanie	Germany
15:45 - 16:00	Combined effect of berry density and harvest date on the accumulation of phenolic compounds during ripening of "Italia" table grape cultivar	Novello, Vittorino	Italy
16:00 - 16:15	Yield impacts on the concentration of aroma precursors in grapevine berries ( <i>Vitis vinifera</i> L.)	Alem, Hubert	France
16:15 - 16:30	Buffer or shared time between a short session introduction and/or closure		
<b>16:30 - 20:00</b>	<b>VINEYARD TECHNICAL VISIT MAIPÚ - LUJÁN DE CUYO</b>		
16:30 - 17:00	Trip to Luján de Cuyo/Maipú		
17:00 - 19:30	Vineyards and Wineries		
19:30 - 20:00	Return to Mendoza		
20:00	Free dinner at Chacras de Coria Town or in Aristides Villanueva in Mendoza City		

# Wednesday November 8th

Where? Centro de Congresos y Exposiciones "Francisco" in San Martin County

Time	Title/Activity	Speaker	Country
<b>07:45 - 09:45</b>	<b>PROFESSIONAL DAY - EAST REGION - SAN MARTIN</b>		
07:45 - 09:00	Meeting at Nave Universitaria and travel to San Martin		
<b>09:00 - 11:00</b>	<b>Session : PRECISION VITICULTURE, MODELLING AND TECHNIQUES</b>		
	<b>Chairperson: Roberta De Bei</b>		
09:00 - 09:15	A new method for on-the-go yield assesment using machine vision	Tardaguila, Javier	Spain
09:15 - 09:30	Early yield prediction through grapevine bud image analysis	Collins, Cassandra	Australia
09:30 - 09:45	Using an unmanned ground vehicle to scout vineyards for non intrusive estimation of canopy features and grape yield	Lopes, Carlos	Portugal
09:45 - 10:00	Adaptation of a model-based decision support tool for the management of water status in goblet-trained vineyards	Hublart, Paul	France
10:00 - 10:15	Estimation of vine pruning weight using remote sensing data: Relative contribution of variables	Towers, Pedro	South Africa
10:15 - 10:30	Determination of the relationship between green indexes and productive values in vineyard using sentinel images	Rodríguez Plaza, Luis	Argentina
10:30 - 10:45	A non-intrusive probe to measure sap flow in grapevine plants	de Sousa, Elias Fernandes	Brazil
10:45 - 11:00	Buffer or shared time between a short session introduction and/or closure		
<b>11:00 - 11:30</b>	<b>COFFE BREAK + POSTERS</b>		
<b>11:30 - 13:30</b>	<b>Session: VINEYARD MANAGEMENT</b>		
	<b>Chairperson: Pilar Baeza Trujillo</b>		
11:30 - 11:45	Late pruning can delay maturity and preserve wine chemical and sensory attributes in Barossa Valley Shiraz	Moran, Martín	Australia
11:45 - 12:00	Semi-Minimal pruned hedge combined with fungus-tolerant cultivars: A two-fold low input strategy to increase sustainability of grape production	Friedel, Matthias	Germany
12:00 - 12:15	Effects of deficit irrigation using saline water on Monastrell vine performance and grape and wine quality	Martínez Moreno, Alejandro	Spain
12:15 - 12:30	Contribution of viticultural factors to enhance an aromatic precursor for aged red wine of Vitis vinifera cv Malbec	Dufourcq, Thierry	France
12:30 - 12:45	Aroma response to genetic variations and light intensity in grape berries in a practical canopy management application	Koch, Alfredo	USA
12:45 - 13:00	Five years expeiments on the effects of late mechanical defoliation on the ripening delay of Sangiovese (Vitis vinifera L. ) grapes	Intrieri, Cesare	Italy
13:00 - 13:30	Bonarda Special	National Bonarda Plan	Argentina
<b>13:30 - 15:00</b>	<b>BONARDA TASTING + LUNCH + TECHNOLOGY STANDS</b>		
<b>15:00 - 17:00</b>	<b>SESSION VINEYARD MECHANIZATION</b>		
	<b>Chairperson: Borbara Balo</b>		
15:00 - 15:15	Organizational innovation for the cost reduction. The common use of agricultural machinery in viticulture	Novello, Raúl	Argentina
15:15 - 15:30	Advances in grapevine health: a new approach to bunch thinning	Schmid, Arno	Italy
15:30 - 15:45	The development of a low-input under-vine floor management system which improves profitability without compromising yiel or quality	Penfold, Chris	Australia
	<b>SESSION SUSTAINABILITY</b>		
	<b>Chairperson: Carlos Tizio</b>		
15:45 - 16:45	Round Table Private Sector		
16:45 - 17:00	Professional Day Closure - Conclusions		
<b>17:00 - 22:00</b>	<b>VINEYARD TECHNICAL VISIT (ONLY FOR ASSITANTS OF FULL REGISTRATION)</b>		
17:00 - 19:00	Vineyards and Wineries		
19:00 - 22:00	Early dinner and back to Mendoza		

## Thursday November 9th

Where? NAVE UNIVERSITARIA and Valle de Uco

Time	Title/Activity		Speaker	Country
<b>08:00 - 09:00</b>	<b>Session: INTERNATIONAL ACADEMY OF VINE AND WINE</b>			
	<b>Chairperson: Alain Carbonneau</b>			
08:00 - 08:15	Towards an agroecological viticulture: advances and challenges		Gary, Christian	France
08:15 - 08:30	Territorial transformations of the North Oasis perceived by vine growers: an approach from the irrigation water		Perez, Martín	Argentina
08:30 - 08:45	Caracterización de los productores de vid en las principales zonas vitivinícolas de Bolivia		Oliva Oller, Pablo R.	Bolivia
08:45 - 09:00	GiESCO chart of sustainable Viticulture : where is the place of Meta-Ethics?/ The biological triptych: a method of thought		Carbonneau, Alain	France
<b>09:00 - 22:00</b>	<b>VALLE DE UCO</b>			
09:00 - 11:00	Trip to Valle de Uco			
11:00 - 13:00	Vineyards and wineries visits			
<b>13:00 - 15:00</b>	<b>LUNCH at VALLE DE UCO</b>			
15:00 - 18:00	Vineyards and wineries visits			
<b>18:00 - 20:00</b>	<b>CLOSING DINNER at VALLE DE UCO</b>			
20:00 - 22:00	Travel from Valle de Uco to Mendoza			

## Friday November 10th

Where? NAVE UNIVERSITARIA

Time	Title/Activity		May assist
<b>09:30 - 12:00</b>	<b>Session: GiESCO General Assembly</b>		
	Evaluation of the 20 <sup>th</sup> GiESCO International Meeting 2017		Every full member of the association: current members, participants in the 20 <sup>th</sup> meeting having paid full registration fees, Organizing Committee and Scientific Committee members. The Chair will be insured by the President.
	Choice of the organizer of the 21 <sup>th</sup> meeting, following the presentation of Stefanos Koundouras project of Thessaloniki 2019		
	Pre-choice of the organizer of the 22 <sup>th</sup> meeting, following the presentation of Pascal Durand project of Penglai-Shandong 2021		
	Articulation of those meetings with the Marc Greven's proposal to hold a GiESCO Meeting in New Zealand on the following years		
	Designation and/or vote of the new Board of Directors, following proposals of volunteer investments in the activity of the association; organization of a restricted Board for efficient management; preparation of the modalities of the election of a new President.		