



**PROVISIONAL PROGRAM**

**Sunday March 14<sup>th</sup>**

Time	Venue	Venue
17.00-19.30	Registration	Hotel Taburiente Playa
18.00-19.00	IPA Board meeting	Hotel Taburiente Playa
19.30-21.00	Welcome reception	Hotel Taburiente Playa

**Monday March 15<sup>th</sup>**

***Visit to the north of the island***

Time	Location	Location/Venue
8.30 am	Buses leave	Hotel Taburiente Playa
10.00-12.00	Garafía	José B. Fernández Farm Agroprot Garafía Farm
12.00-13.30	Barlovento	Wilber J. Avila Farm María I. Rodríguez Farm
13.30-17.00	Puntallana	Lunch Ecofarm Nogales
17.00	Buses departure to the hotel	

**Tuesday March 16<sup>th</sup>**

***Visit to the east and west of the island***

Time	Location	Location/Venue
8.30 am	Buses leave	Hotel Taburiente Playa
9.15-13.00	El Paso	Pablo Yanes Farm Daniel Martín Farm Caldera Taburiente Visitor Center of Caldera of Taburiente
13.00-13.30	Breña Alta	Proteas La Palma Farm and packing facilities
15.30	Buses departure to the hotel	

The organization will give the participants a bag with some snacks and drinks (water and juice) to take during the visits, there are no stops at restaurants this day.

Time	Location	Location/Venue
19.00 am	Buses leave	Hotel Taburiente Playa
19.00-21.30	Breña Alta	Casa Osmunda Restaurant
21.30	Buses departure to the hotel	



Wednesday March 17<sup>th</sup>

**IPA Workshop 1: Crop management in the production areas**

Time	Presenter	Title	Institution
8.00-8.30	José Adrián Hdez.	Councillor for Agriculture	La Palma Council
	Laura García Yanes	Director La Palma-Hierro	La Caixa Bank
8.30-9.00 am	Antonio Barreiros Domínguez	Main pests and diseases of the Proteas crop in the Azores. Control strategies.	Servicio Desenvolvimento Agrario Terceira – Azores
9.00-9.30	María Leandro	Propagation methods in the cultivation of Proteas	Flora United Farm Portugal Lda
9.30-10.00	Gerald Malan	General situation and trends of Protea cultivation in South Africa	Fynflor, South Africa
10.00-10.30	Ben Gill	Cultivation of the Proteas crop in the USA	Proteas crop consultant, California
10.30-11.00	Morning coffee		

**IPA Workshop 2: New cultivars and marketing**

Time	Presenter	Title	Institution
11.00-11.30 am	Olga Keijser	Trends in the Proteas market at a global level. How the Dutch auction works.	Coloríngz, Netherlands
11.30-12.00	Olga Keijser	Quality certification in the cut flower sector	Coloríngz, Netherlands
12.00-12.30	Tiago Fleitas	Classification and marketing of proteas. Experience of Fruter Coop, Island of Terceira, Azores.	FruterCoop, Azores
12.30-13.00	Francisco Molina	Classification and marketing of proteas. Experience of Proteas de La Palma, Island of La Palma, Canary Islands	Proteas La Palma, Canary Islands, Spain
13.00-13.30	María Guzmán	Experience with new protea cultivars. Ayobas Group	Proteas La Palma, Canary Islands, Spain
13.30-15.30	Lunch Hotel Taburiente Playa		



15.30-16.30	Ismael Resendiz	Reports of the proteas production areas	International Protea Association
16.30-18.00	Ismael Resendiz	Assembly of IPA	International Protea Association
19.30	Flight to Tenerife		
20.30	Arrival of buses to the Nivaria Hotel, La Laguna		

### Thursday March 18<sup>th</sup>

#### Visits to protea farms

Time	Location	Location/Venue
9.00 am	Buses leave	Hotel Nivaria
9.30-12.30	La Laguna El Sauzal	Adrián Pérez Farm Pedro Barbuzano Farm
12.45	Buses arrive	Hotel Nivaria
13.00-15.00	Lunch	Hotel Nivaria

#### Symposium Sessions

Time	Session	Presenter	Title	Institution
16.00-16.30	Welcome	Ismael Resendiz, President Intern. Protea Assoc. (IPA)	Conference opening words from IPA	International Protea Assoc.
16.30-16.40	ISHS activities	Dr. Margherita Beruto	Activities of the ISHS Division Ornamentals Plants	Chair of the ISHS Division Ornamental Plants
16.40-17.10	Afternoon coffee			
17.10-17.55	Session 1 Propagation Keynote speaker	Juan F. Pérez Francés	Proteas micropropagation - A review	La Laguna University, La Laguna, Tenerife
17.55-18.15		María C. Vera Batista	Effect of Wounding and Reduction of Foliar Area of the Scions on Cutting-grafting of <i>Leucospermum</i> 'Rigoletto' on <i>L. patersonii</i>	La Laguna University, La Laguna, Tenerife
18.15-19.00	ISHS business meeting	Dr. Magherita Beruto	Next symposium venue and convener. Chair of the IPWG.	ISHS
18.15-19.00	Poster setup			



Friday March 19<sup>th</sup>

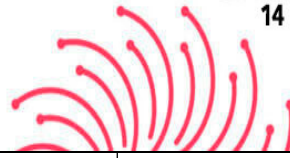
Morning session

Time	Session	Presenter	Title	Institution
9.00-9.45 am	Session 2 Breeding Keynote speaker	Kenneth W. Leonhardt	Breeding <i>Leucospermum</i> for improved horticultural characteristics, disease tolerance and cultivation in tropical climates	Dept of Horticulture, University of Hawaii, 3190 Maile Way, Rm 102, Honolulu, HI 96822-2232, U.S.A.
9.45-10.05		Isidoro Rodríguez- Hernández	Breeding of <i>Leucospermum</i> to Obtain Clayey and / or Alkaline-clayey Soil Tolerance Hybrids	La Laguna University, Tenerife, Spain
10.05-10.50	Session 3 Crop Management: Nutrition and Irrigation Keynote speaker	Avner Silber	Evolutionary adaptation of plants to phosphorus deficiency: the multifaceted role of proteoid roots	Inst. Soil, Water & Environm. Sci., ARO, The Volcani Center, Bet Dagan 50250, Israel
10.50-11.20	Morning coffee			
11.20-12.05	Session 4 Crop Management: Pruning, flowering and production Keynote speaker	D.G. Malan	Pruning cut-flower protea	Fynflor, Kleineweide 4, Stellenbosch 7600 South Africa
12.05-12.25		Flavia Schiappacasse	Manipulating flowering time of <i>Protea</i> 'Pink Ice' in Chile to prevent bud freeze injury	University of Talca, Facultad de Ciencias Agrarias, Casilla 747, Talca Chile
12.25-12.45		N. Hattingh	Phenological studies of <i>Protea cynaroides</i> (L.) 'A. Ice' following a synchronising winter pruning regime	Stellenbosch University, South Africa
12.45-13.05		Eugenie-Lien Louw	Curvature development in vegetative <i>Leucospermum</i> 'Soleil' and 'Succession II' shoots in response to gravity and a consistent force	Arnelia Farms, Technical Manager, PO Box 63, 7355 Hopefield, South Africa



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13.05-13.25		Flavia Schiappacese	Protea 'Pink Ice': base temperature and growing degree hours from flower bud to harvest stage in Maule Region, Chile	University of Talca, Facultad de Ciencias Agrarias, Casilla 747, Talca, Chile
13.25-15.00	Lunch Hotel Nivaria			

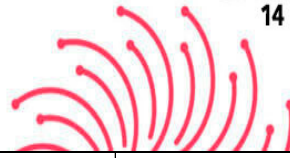
### Afternoon session

Time	Session	Presenter	Title	Institution
15.00-16.00	Poster session			
16.00-16.20		Antonio López Cappa	ASOCAN and Current Canaries <i>Proteaceae</i> Production: Achievements and Challenges	ASOCAN, Canary Islands, Tenerife, Spain
16.20-16.40		M. L. Fuertes	Agricultural biodiversity, proteas as instrument of integral development in the protection space Seven Lomas, southeast of Tenerife, Canary Islands	Calle Mendez Nuñez 17 Bajo, 38003 Tenerife Santa Cruz de Tenerife
16.40-17.10	Afternoon coffee			
17.10-17.55	Session 5 Postharvest Keynote speaker	Lynn Hoffman	Recent advances in postharvest research for <i>Proteaceae</i> ornamentals	Department of Horticultural Science, Stellenbosch University, S.Africa
17.55-18.15		Rolf Timmerman	Chrysal viva as a postharvest treatment to improve leaf and inflorescence quality in various protea species	Gooimeer 7, 1411DD Naarden, Netherlands
18.15-19.00	Session 6 Plant protection Keynote speaker	María Leandro	<i>Proteaceae</i> Plant Protection - An Overview from Portugal	Flora United, Portugal



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19.00- 19.20		Antonio Domingues	Calendar of risk occurrence for pests and diseases most common in <i>Proteaceae</i> in the Azores islands	SDAT, Vinha Brava, Conceição, 9701-880 Angra do Heroísmo Azores, Portugal
19.20-19.40		Enrique Huertas	Risk map of the main diseases and pests that affect the cultivation of proteas in the Canary Islands	La Palma Council, La Palma, Spain
19.40-20.00	ISHS Medal and Certificate to the Convener ISHS Young Minds Awards Certificates			
21.00	Closing dinner Casino La Laguna			

## Posters

A.M. de León-Hernández <sup>1</sup> , M.C. Vera-Batista <sup>1</sup> , V. Herrera-González <sup>1</sup> , M. Hernández <sup>2</sup> , I. Rodríguez-Hernández <sup>1</sup> and J.A. Rodríguez-Pérez <sup>1</sup>	Propagation by grafting on <i>Leucospermum patersonii</i> and L. 'Spider' of <i>Leucospermum</i> cultivars: 'Anouk', 'Raziya', 'Succession I' and 'Themba'	<sup>1</sup> Department of Agricultural, Nautical, Civil and Marine Engineering, University of La Laguna, Tenerife, Spain; <sup>2</sup> Instituto de Productos Naturales y Agrobiología, Consejo Superior de Investigaciones Científicas, Avenida Astrofísico Francisco Sánchez ,3, La Laguna, 38206, Tenerife, Spain.
A.M. de León-Hernández <sup>1,a</sup> , M.C. Vera-Batista <sup>1</sup> , V. Herrera-González <sup>1</sup> , M. Hernández <sup>2</sup> , I. Rodríguez-Hernández <sup>1</sup> and J.A. Rodríguez-Pérez <sup>1</sup>	Propagation by cutting-grafting on <i>Leucospermum patersonii</i> of <i>Leucospermum</i> cultivars: 'Anouk', 'Raziya', 'Succession I' and 'Themba'	<sup>1</sup> Department of Agricultural, Nautical, Civil and Marine Engineering, , University of La Laguna, Tenerife, Spain; <sup>2</sup> Instituto de Productos Naturales y Agrobiología, Consejo Superior de Investigaciones Científicas, Avenida Astrofísico Francisco Sánchez ,3, La Laguna, 38206, Tenerife, Spain.
Maria Candelaria Vera-Batista <sup>1</sup> , M. Carmen Alfayate <sup>2</sup> , Emma Suárez <sup>3</sup> , Zuleima González <sup>2</sup> , Isabel Hernández <sup>1</sup> , Andrea Lozano <sup>2</sup> , Patricia Marrero <sup>2</sup> ,	Structural and ultrastructural study of leaf and stem of six cultivars of <i>Leucadendron</i> (R.Br.) and <i>Leucospermum</i> (R.Br.) genera ( <i>Proteaceae</i> )	<sup>1</sup> Department of Agricultural, Nautical, Civil and Marine Engineering; <sup>3</sup> Faculty of Pharmacy; <sup>2</sup> Faculty of Biology, La Laguna University, Tenerife, Spain
Maria Candelaria Vera-Batista <sup>1</sup> , Emma Suárez <sup>3</sup> Isabel Hernández <sup>1</sup> , Yaiza Chávez <sup>2</sup> Andrea Lozano <sup>2</sup> , Patricia Marrero <sup>2</sup> , M. Carmen Alfayate <sup>2</sup>	Vegetative Propagation of <i>Leucospermum</i> R.Br.: a comparative study at the developmental and tissue levels after different treatments	<sup>1</sup> Department of Agricultural, Nautical, Civil and Marine Engineering; <sup>3</sup> Faculty of Pharmacy; <sup>2</sup> Faculty of Biology, La Laguna University, Tenerife, Spain



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<p>Maria Candelaria Vera-Batista<sup>1</sup>, Emma Suárez<sup>2</sup>, J. A. Rodríguez-Pérez<sup>1</sup>, M. Carmen Alfayate<sup>3</sup>, and I. Frías<sup>4</sup></p>	<p>Peroxidases as biochemical markers for rooting in some species and cultivars of two <i>Proteaceae</i> genera</p>	<p><sup>1</sup>Department of Agricultural, Nautical, Civil and Marine Engineering; <sup>2</sup>Faculty of Pharmacy; <sup>3</sup>Faculty of Biology; <sup>4</sup>Faculty of Sciences, La Laguna University, Tenerife, Spain</p>
<p>I. Rodríguez-Hernández<sup>1a</sup>, M.C. Vera-Batista<sup>1</sup>, A.M. de León-Hernández<sup>1</sup>, M. González-Hernández<sup>1</sup> and J.A. Rodríguez-Pérez<sup>1</sup>.</p>	<p>Cutting grafting of <i>Leucospermum</i> 'Tango' on <i>L. 'Spider'</i>. Effect of wounding, rooting media, and reduction of foliar area of the scion.</p>	<p><sup>1</sup>Agricultural Engineering Section, Department of Agricultural, Nautical, Civil and Marine Engineering, Higher Polytechnic School of Engineering, University of La Laguna, Carretera de Geneto, 2, La Laguna, Tenerife, Spain.</p>

<p>I. Rodríguez-Hernández<sup>1</sup>, M.C. Vera-Batista<sup>1</sup>, A.M. de León-Hernández<sup>1</sup> and J.A. Rodríguez-Pérez<sup>1</sup>.</p>	<p>Effects of pretreatment of mother plants with BA and concentration of IBA on rooting of <i>Leucospermum</i> 'Succession II' stem cuttings</p>	<p><sup>1</sup>Agricultural Engineering Section, Department of Agricultural, Nautical, Civil and Marine Engineering, Higher Polytechnic School of Engineering, University of La Laguna, Carretera de Geneto, 2, 38200, La Lguna, Tenerife, Spain.</p>
<p>J.A. Rodríguez-Pérez<sup>1</sup>, A.M. de León-Hernández<sup>1</sup> and M. Hernández<sup>2</sup></p>	<p>Influence of clay soil on two <i>Leucospermum</i> cultivars planted directly or grafted on clay-soil resistant rootstock. Study of Na and micronutrient nutrition.</p>	<p><sup>1</sup>Agricultural Engineering Section, Department of Agricultural, Nautical, Civil and Marine Engineering, Higher Polytechnic School of Engineering, University of La Laguna, Carretera de Geneto, 2, 38200, La Lguna, Tenerife, Spain.</p>
<p>J.A. Rodríguez-Pérez<sup>1</sup>, A.M. de León-Hernández<sup>1</sup>, M. Hernández<sup>2</sup>, M.C. Vera-Batista<sup>1</sup>, and I. Rodríguez-Hernández<sup>1</sup></p>	<p>Influence of clay soil on two <i>Leucospermum</i> cultivars planted directly or grafted on clay-soil resistant rootstock. Study of plant growth and cut flowers production.</p>	<p><sup>1</sup>Agricultural Engineering Section, Department of Agricultural, Nautical, Civil and Marine Engineering, Higher Polytechnic School of Engineering, University of La Laguna, Carretera de Geneto, 2, 38200, La Lguna, Tenerife, Spain.</p>