



**WPC2022IRELAND**

30<sup>TH</sup> MAY - 2<sup>ND</sup> JUNE 2022  
[www.wpc2022ireland.com](http://www.wpc2022ireland.com)



**WORLD POTATO  
CONGRESS**

# The 11th World Potato Congress

30 May - 2 June 2022, Dublin, Ireland

**The Changing World of the Potato**  
Programme Book



# The 11th World Potato Congress

30 May - 2 June 2022, Dublin, Ireland





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# Welcome Letters

**Dear Delegates,**

In 2017, when the Local Organising Committee (LOC) of the Irish Potato Federation (IPF) launched its bid to host the 11th World Potato Congress (WPC) in Ireland, we chose as the Congress Theme “The Changing World of the Potato”. Little did we know then just by *how much* the world would change, impacted as we were by two seismic events - a global pandemic and a war in Ukraine.

Against this background, the 11th World Potato Congress brings together over 850 potato professionals from 60 countries. In plenary, parallel and focus session formats, the WPC programme includes over 60 international expert speakers on the challenges and opportunities in the global potato business, along with health and nutrition, innovation, sustainability, food security and development. In addition, over 100 high quality abstracts have been submitted for the poster communication sessions providing great opportunities for scientific exchange. For the first time ever, an FAO Director General, HE QU Dongyu, will present at a World Potato Congress and visit Ireland. Doubly historic and the timing couldn't be more appropriate.

The Congress venue, the Royal Dublin Society (RDS), was founded in 1731. Situated in the heart of Dublin, it has long been associated with Irish agriculture and has a direct link with Irish potato history. Under its auspices, the National Botanic Gardens were founded in Glasnevin, Dublin, in 1795. It was here on the 20th August 1845 the arrival of the infamous *Phytophthora infestans* to Ireland was heralded by the curator of the Gardens, David Moore. What followed was the single most cataclysmic event in Irish history - the Great Irish Potato Famine of 1845-1852, reaching its zenith in 1847 (Black '47), 175 years ago this year.

Today, Ireland is an outward looking country with a modern agriculture industry keen to engage with the rest of the world. Through the Congress industry tours, delegates will have the opportunity to network onsite with leading stakeholders of the Irish potato industry. The social programme highlights the best of Irish culture and cuisine, showcased by the Congress Social Evening which will take place in the iconic Guinness Storehouse.

It would not have been possible to host the 11th World Potato Congress without the generous support of the industry sponsors listed in this programme. From the project's inception, IPF members matched strong enthusiasm with solid financial investment. Other sponsors quickly followed and it is a mark of their calibre that despite the occurrence of two seismic events and a postponement of the event by one year, not one single sponsor cancelled or withdrew.

Irish state agencies could not have been more supportive. Through its bursary scheme, the Irish Department of Agriculture, Food and the Marine provided the event with great international depth and breadth. At a very early stage, Bord Bia (the Irish Food Board) gave an enormous boost to the Congress by becoming a platinum sponsor. Through its global connectivity with the most renowned agri scientists, Teagasc (The Irish Agriculture and Food Development Authority), played a crucial role in forging the Congress programme. The Irish aid agency VITA very effectively drove the DAFM bursary scheme. WPC Inc.'s President Romain Cools, its Directors and International Advisers were the most genial, yet effective collaborators. Europatat provided solid support and we welcome its members to Dublin for their own Congress in Europatat's 70th anniversary year. Fáilte Ireland and the National Potato Committee of the Irish Farmers Association were also enthusiastic supporters. Of our professional conference organising partner, Keynote PCO, we cannot speak too highly.

For helping to make this historic World Potato Congress event possible in Ireland, to the aforementioned above - a huge thank you from the WPC Local Organising Committee.

Finally, to all WPC delegates - we are so appreciative that you have made the journey to Ireland in these challenging times. Perhaps some of your ancestors left Ireland because of the potato. If so, it could be said that now, again because of the potato, you're coming home. In any case, wherever you hail from, for the week of the Congress all WPC delegates will be treated as honorary Irish citizens and you will experience the warmest of warm welcomes - the full on, traditional Irish, C  ad M  ile F  ilte.

**Liam Glennon**  
Chairperson, Local Organising Committee



**Liam Glennon**  
Chairperson, Local  
Organising Committee



Dear potato friends,

**“Fáilte go hÉirinn, fáilte go Comhdháil Prátaí an Domhain!”**

(Welcome to Ireland, welcome to the World Potato Congress)!

In 2018, potato professionals were invited to the congress in Cusco Peru, the birthplace of the potato. What better location than Ireland could have been selected to host the following World Potato Congress. No other country in the world has experienced its history being so influenced by the potato.

Potatoes first made its appearance in Europe c.1570, having been brought from South America by the Spaniards. The crop was introduced to Ireland only 15 years later, c.1585. As a staple diet for the native population, it proved to be ideal, until in 1845 late blight changed Ireland's history, completely and dramatically. Strangely enough, a consequence of this disaster was that the Irish were to have a major impact on global politics, culture, science, music and sports. This influence would never have been so widespread without the potatoes impact on the country's history.

And still today, as I have experienced myself during the preparation of this event, the Irish people are rightfully proud of their potatoes. And they can be: though the potato crop is relatively small compared to other countries in the world, Ireland is continuously investing in science and innovation in the potato sector. “Teagasc”, the Agriculture and Food Development Authority in Ireland, is closely related to new developments in the Irish (seed) potato sector, and together with NGO's and Irish companies, also supports development projects on potatoes in Eastern Africa. Thanks to the Irish Department of Agriculture, Food and Marine (DAFM), we can also welcome a large delegation of potato professionals from developing countries all over the world. Furthermore, Ireland is one of the active supporters of the world of CIP, the international potato center in Lima, Peru.

Because of the challenges caused by the COVID-19 pandemic, the local Irish Organising committee (LOC) had to postpone the congress. Nevertheless, this did not prevent the organisers preparing an appealing program for potato professionals from all over the world, as all of you will experience with your own eyes, both here in the RDS and further afield. I would like to thank Liam Glennon, Chairman of the LOC, Michael Hoey, President of the Irish Potato Federation, as well as the sponsors of this event, especially Mike Neary of Bord Bia, the Irish Food Board as a platinum sponsor, for all their efforts and support to set up this great event under these difficult circumstances.

World Potato Congress Inc. has launched at FAO level, the proposal to celebrate an annual International Potato Day. Peru, with the support of other countries (a.o. Ireland), has agreed to take the lead with this proposal, which will hopefully lead to a positive decision in the United Nations General Assembly. We are convinced that this Irish edition of the World Potato Congress will also contribute to highlight the ‘humble potato’ at this level, supporting this initiative which will recognise this sustainable super food for the whole planet.

As the world is again facing challenging times right now, I propose to take this message with you, expressed in this old Irish proverb: ‘It's easy to halve a potato when there is love’!

I wish all participants an exciting World Potato Congress, full of enriching new encounters.



**Romain Cools**  
President/CEO World Potato Congress Inc.



**Romain Cools**  
President/CEO  
World Potato Congress Inc.



# Welcome Letters

Dear Delegates,

Céad Míle Fáilte Go hÉireann (A Hundred Thousand Welcomes to Ireland)

On behalf of the Irish Potato Federation and the Irish People, I would like to welcome you all to the 11th World Potato Congress.

We are honoured to welcome you to the Island of Ireland a year later than expected due to the COVID-19 pandemic. In many ways the event has become even more relevant as the global agri-food industry grapples with issues such as food security, global supply chain issues and the continued drive towards more sustainable food production systems. Ireland has a very close relationship with the potato going back as far as the early sixteenth century where Sir Walter Rally planted potatoes at his Irish home in Youghal, County Cork.

In the early eighteenth century the potato was the staple food of Ireland. The potato emerged strongly in Ireland because it suited the soil, climate and living conditions remarkably well. In 1845, reports of an unknown disease now known as potato blight hit the potato crops of Ireland and this was the start of the Great Famine which constituted a cataclysm unequalled in Irish history.

The potato is a major part of Irish history, and we hope it will also be a major part to our future. We are incredibly excited by the high-profile speakers, topics, and events that we have secured for this event, and I would like to congratulate the organising committee, in particular Chairperson Liam Glennon, for their commitment to attracting such heavy-hitting speakers in challenging circumstances. We hope this World Potato Congress will be an enjoyable and informative one, with a great taste of Ireland and our humble spud!

I look forward to meeting and speaking with many of you over the next few days, and my family and I look forward to welcoming some of you to our home farm on Thursday as part of the technical tours.

Go raibh maith agat.

(Thank you).



**Michael Hoey**  
President, Irish Potato Federation



**Michael Hoey**  
President, Irish Potato  
Federation







## Local Organising Committee Members

Member	Affiliation
Liam Glennon – Chairperson	Irish Potato Federation
Brian Arnold	Agenda Consulting
Lorcan Bourke	Bord Bia
Chris Brownlow	Agronomist
Ciara Feehely	Vita
John Gilliland	Vita
Denis Griffin	Teagasc
Michael Hennessy	Teagasc
Niamh Kellaghan	Department of Agriculture, Food and the Marine
Breda Leonard	Country Crest
Colm McDonnell	Irish Potato Marketing
Dan Milbourne	Teagasc
Noel Mitchell	Keynote PCO
Angus Wilson	Wilson's Country



## World Potato Congress Inc.

World Potato Congress Inc. is a non-profit organisation supported by a group of volunteer directors representing potato jurisdictions around the world. Congress events are hosted in partnership with local host committees.

World Potato Congress Inc. creates a value chain network to lead sustainable growth and development of the potato to meet increased global use and demand.

In 1993 the first edition of World Potato Congress was held in Charlottetown, Prince Edward Island, Canada. This initiative to gather potato professionals from all over the world was a success from the start, illustrating that all links of the global potato chain felt the need to meet and share ideas and knowledge, promoting the potato.

Since its first edition, World Potato Congress Inc. has developed its strategy to become a global potato organisation and a major driver to promote the potato crop and consumption in the developed as well as the developing countries. The UN International Year of the Potato in 2008 highlighted the potential of this wonderful healthy and versatile staple food.



Email: [info@potatocongress.org](mailto:info@potatocongress.org) | Tel: +1 902 368 8885 | Web: [potatocongress.org](http://potatocongress.org)

## The Irish Potato Federation

The Irish Potato Federation was founded in 1968 to promote the interests of the wholesale potato trade in Ireland and to promote potato consumption. Today it consists of nine members, comprising potato wholesalers, packers, importers and exporters of both seed and ware potatoes. Collectively they manage and distribute a significant proportion of Ireland's potato crops.

The Federation has been an active member of Europatat, the European Potato Trade Association, for over 40 years and is recognised by the Department of Agriculture, Food and the Marine and An Bord Bia (The Irish Food Board) as the official negotiating body on behalf of the wholesale potato trade in Ireland.

The main objective of the Federation was to promote the interests of its members, to represent the industry nationally at meetings with state agencies e.g. Department of Agriculture & Food, and also to keep its members fully briefed on the progress and implications of Ireland's impending entry into the European Economic Community (EEC).



### IPF Current Members

Castlecor Potatoes ULC	Country Crest Ltd.	IPM Potato Group
K&K Produce Ltd.	Meade Potato Co Ltd.	O'Shea Farms Unlimited
PKS Farms Ltd.	Sam Dennigan & Co. UC	Seed Potato Company Ltd



# General Information





## General Information

### APP AND ONLINE PROGRAMME

To minimise the volume of printed paper, the detailed programme and abstracts are available to view online and through the congress app and website. Visit <https://wpc2022ireland.com/programme/programme-schedule/> or to download the app, please search worldpotato2022 with your app provider.

### EXHIBITION

The exhibition will be open during the following hours:

Monday, 30th May	11:00 – 19:30
Tuesday, 31st May	08:00 – 18:30
Wednesday, 1st June	08:00 – 18:30

### REGISTRATION

The registration desk is located on the ground floor lobby of the RDS, at the entrance to the Exhibition Hall, for the duration of the congress. Below are the registration desk opening times.

Monday, 30th May	11:00 – 19:00
Tuesday, 31st May	08:00 – 18:00
Wednesday, 1st June	08:00 – 18:00

### PRESENTATIONS

All presentations should be brought to the AV technician in the relevant meeting room at least one hour before the presentation time. Speakers presenting in the Concert Hall are requested to upload their presentations 24 hours in advance. Please note technicians cannot upload presentations during sessions, so presenters should upload during breaks and lunchtimes only.

Technicians are available at the following times.

Concert Hall:	
Monday, 30th May	13:30 – 18:00
Tuesday, 31st May	08:30 – 18:00
Wednesday, 1st June	07:30 – 16:30
Meeting Room 2, 3 and 4	
Tuesday, 31st May	10:00 – 16:30
Wednesday 1st June	09:00 – 15:00

### ACCESSIBILITY

The RDS is fully accessible for delegates. If you have any particular requirements, please advise any member of staff who will be able to make appropriate arrangements. There is a lift located to the left of the registration desk. There is a Nursing Room for mothers & babies, and also a prayer room available for delegates. Should you require access to these private spaces, please come to the onsite registration desk where a member of staff will assist you.

### BANKING

Bank opening hours are generally from 10:00 – 16:00. The closest ATM is located across the road from the RDS entrance. Visa and MasterCard are accepted in almost all restaurants, bars, cafes and shops.

### CATERING

Lunch and tea and coffee breaks are served in the Exhibition Hall. Lunch vouchers are packed into the delegate badge holder.

In order to minimise the use of single use plastic, all delegates are encouraged to bring their own refillable bottles. Biodegradable cups are also provided next to the water station in the Exhibition Hall.

Vegetarian options are available each day. If you have additional dietary restrictions, please advise any member of the catering staff.

### CHARGING AND IT STATION

Print items or charge your phone, laptop or tablet within the Exhibition Hall - see the floorplan for location. Kindly supported by TriCal Group



### CURRENCY

The currency in Ireland is Euro (€). Most banks offer a foreign exchange facility and offer the best exchange rates. It is important to remember that traveller's cheques are not generally accepted for everyday transactions, so it is recommended that guests cash them at the beginning of their trip.

### EMERGENCIES

During the congress, in case of an emergency of any kind, please contact the registration desk located at the front of the Exhibition Hall. If you require medical services while residing in your hotel/accommodation, please contact your hotel/accommodation front desk who will be able to arrange a doctor on call. Please ensure to pay attention to any hotel alarms and announcements.

Fire/Ambulance and Emergency Number in Ireland is 999 or 112.

### LOST PROPERTY

During the congress any lost property should be handed into the registration desk.

### PARKING

All car parking facilities at the RDS are operated on a fee-paying basis. Parking is subject to availability and is €7 per day.

### Car Park Opening Hours

Merrion Road & Anglesea Road Car Park

Monday to Friday 07:30 - 18:30



## PHOTOGRAPHY

All congress attendees acknowledge and consent that pictures will be taken by the official congress photographer and may be used by the congress organisers for purposes such as marketing future events.

## PLENARY SESSIONS

All Plenary Sessions take place in the Concert Hall.

## POSTERS

Posters will be displayed on the balcony in the Exhibition Hall. Dedicated Poster Presentation Sessions will take place on Tuesday, 31st May at 12:20 – 13:20 and Wednesday, 1st June from 14:00 – 15:00

## SHOPPING

Shops in Ireland are mostly open from 09:00 - 18:00 on Monday-Saturdays with later hours on Thursday evenings. Most major stores/shops open on Sunday – some with reduced opening times from 12:00 – 18:00.

## SMOKING

Smoking is not permitted in Ireland in any building, and there is no smoking allowed in any of the meeting rooms or public spaces. There are designated smoking areas outside buildings and delegates are requested not to litter in these areas. The smoking ban applies to all restaurants, bars, cafes and all public venues in Ireland.

## SPEAKER READY ROOM & LOUNGE

For speakers looking to finish their presentation, check their slides or have a quiet moment to prepare for their talk – our speaker lounge is located off the Exhibition Hall, on Level 1, above the registration desk. Access is for congress presenters only.

Kindly supported by Allied Potato.



## SUSTAINABILITY

The RDS is committed to being a role model for addressing the challenges of maintaining historical buildings and also being a sustainable campus. We have been awarded the ISO50001 certificate for energy efficiency, have covered a roof in solar panels that directly feed our 6 electric vehicle charge points. We are also moving towards replacing all single-use plastic with fully compostable alternatives.

All of the grass cuttings and green waste produced at the RDS are sent to Thorntons Waste & Recycling, who turn this into compost for use around the campus. The RDS Head Gardener uses this for all the summer planting in the RDS grounds. Pollinator plants are encouraged too, through the planting of native wildflowers in some parts of the grounds, while allowing lawn flowers to grow in other parts by not trimming the grass tightly.

## TIPPING

It is generally customary to leave a small gratuity (10%) for services in restaurants, if good service is provided. Tips for taxis and any porter services are at your discretion.

## VOLTAGE

Throughout Ireland 220V is the standard supply. Flat three-pin plugs are used.

## WATER STATION

Located in the Exhibition Hall, refill your water bottle or utilise the compostable cups (please deposit used cups only in the compost bins provided). Delegates are encouraged to use this water station, rather than purchase single use bottles.



## WI-FI

Wi-Fi access is available throughout the RDS.



# Our food industry is leading us to a better future

As populations grow, so too does the need for food. Through Origin Green, the Irish food and drink industry is responding to this need by producing food in a way that is kinder to our environment and its people.

Created by Bord Bia, Origin Green is Ireland's food and drink sustainability programme. It brings together the entire food industry with a common goal: sustainable food production. That means producing safe, nutritious food within a viable industry that protects and enhances the natural environment and the local community.

Find out more by visiting [OriginGreen.ie](https://OriginGreen.ie)

**BORD BIA**  
IRISH FOOD BOARD







# What if...

our most potent allies  
are right under our feet?

Our biotechnology solutions help you unlock the power  
of soil microbes to maximize sustainable productivity.



Discover more at [alltechcropscience.com](https://alltechcropscience.com)





# Programme Overview





## Timetable Monday, 30th May 2022

11:00 - 15:30	<b>Congress Registration</b>
15:00 - 15.30	<b>Welcome Refreshments</b>
15:30 - 16:35	<b>WPC CONGRESS OPENING - CONCERT HALL</b>
15:30 - 15:35	<b>Welcome Address</b> Liam Glennon, Chairperson Local Organisation Committee for WPC 2022
15:35 - 15:40	<b>Address by President/CEO of WPC Inc.</b> Romain Cools, WPC Inc., Canada
15:40 - 15:45	<b>Address by President of the Irish Potato Federation (IPF)</b> Michael Hoey, IPF, Ireland
15:45 - 15:55	<b>Official Opening of 11th World Potato Congress</b> Charlie McConalogue TD, Minister for Agriculture, Food and the Marine
15:55 - 16:10	<b>Europe's Green Deal</b> Commissioner Janusz Wojciechowski, European Commissioner for Agriculture
16:10 -16:35	<b>PL-01: Ireland, Canada and the potato</b> Robert G. Kearns, Canada Ireland Foundation, Canada
16:45 - 18:15	<b>PLENARY SESSION - CONCERT HALL</b> Session Chair: Frank O'Mara, Director of Teagasc, Ireland
16.45 - 17:15	<b>PL-02: The Potato in a changing world</b> HE QU Dongyu, Director-General of the Food and Agriculture Organization, United Nations, Italy
17:15 - 17:20	<b>Address by the Minister of Agrarian Development and Irrigation of Peru</b> Oscar Zea Choquechambi
17:20 - 17:55	<b>PL-03: Ireland - the Green Island</b> Tara McCarthy, Bord Bia - Irish Food Board, Ireland
17:55 -18.10	<b>PL-04: Poland as a coordinator in the reconstruction of the Ukrainian potato industry</b> Tomasz Bienkowski, Polish Potato Federation, Poland
18:15 - 19:30	<b>Welcome Reception - kindly supported by Sam Dennigan &amp; Co U.C.</b>



# The 11th World Potato Congress

30 May - 2 June 2022, Dublin, Ireland



## Timetable Tuesday, 31st May 2022

06:30	WPC 2022 - 2K Fun Run - kindly supported by Potatoes USA			
09:00 - 10:15	PLENARY SESSION - CONCERT HALL			
09:00 - 09:25	PL-05: If I can... Chris Koch, Alberta, Canada - Session kindly supported by John Deere			
09:25 - 09:50	PL-06: The global food market of the near future Damien McLoughlin, University College Dublin, Ireland			
09:50 - 10:15	PL-07: The dynamic global potato market Cedric Porter, World Potato Markets, UK			
10:15 - 11:00	Refreshments & Networking - kindly supported by Tayto Snacks			
11:00 - 12:20	BUSINESS SESSION - CONCERT HALL		HEALTH & NUTRITION SESSION - ROOM 2	
11:00 - 12:30	Where will the potato business be in 5 years' time? Session Chair: Marcel de Sousa, IPM Potato Group, Ireland		The potato – healthy or not? Session Chair: Mike Neary, Bord Bia - Irish Food Board, Ireland	
11:00 - 11:20	C-01: The future is bright Ross Keogh, Keoghs Farm, Ireland		C-04: What does good nutrition look like? Orla Walsh, Ireland	
11:20 - 11:40	C-02: The European perspective Europatat President, Brussels, Belgium		C-05: Iron biofortified potatoes to contribute to reduce malnutrition Gabriela Burgos, CIP, Peru	
11:40 - 12:00	C-03: Challenges and opportunities facing the global seed potato industry Gerard Backx, HZPC, Netherlands		C-06: Potatoes - the good carb Georgia Thomas, Potato Growers Association of Western Australia, Perth, Australia	
12:00 - 12:20	Panel Discussion		Panel Discussion	
12:20 - 13:20	POSTER SESSION			
13:20 - 14:45	Lunch & Networking - kindly supported by Syngenta Irl Ltd.			
14:45 - 15:45	FOCUS SESSION 1			
	CONSUMPTION POTATOES - CONCERT HALL	PLANT HEALTH - ROOM 2	POTATO TRADE AND UTILIZATION IN ASIA - ROOM 3	PROMOTION & EDUCATION - ROOM 4
14:45 - 15:45	Driving consumption in worldwide markets Session Chair: Cedric Porter, World Potato Markets, UK	Emerging challenges and plant health in the potato production system Session Chair: Jan Kreuze, CIP, Peru	Demand, consumption and opportunities for international business Session Chair: Peter VanderZaag, Sunrise Potato, Canada	Prepare to be surprised Session Chair: Berta Redondo Benito, Europatat, Belgium
14:45 - 15:00	F1-01: 10 drivers to make you think how to engage potato consumers Paula Carravilla, Europanel, UK	F1-05: Emerging plant pathogens of potato Amanda Gevens, University Wisconsin-Madison, USA	F1-09: Statistical trends for trade of fresh and processed potatoes in and to Asia Samarendu Mohanty, CIP, India	F1-13: Prepare to be surprised Lorcan Bourke, Bord Bia, Ireland
15:00 - 15:15	F1-02: The commercialization of developing farmers in South Africa Nomvula Xaba, Potatoes SA, South Africa	F1-06: Changing arsenal of plant protection products David King, Syngenta, UK	F1-10: Experience in developing domestic and export opportunities for potatoes in India Jang Bahadur Singh Sangha, Sangha Group, India	Laure Payrastre (CNIPT) France Katrien De Nul, VLAM, Belgium
15:15 - 15:30	F1-03: The view from Germany Thomas Herkenrath, DHKV, Germany	F1-07: Economically important virus diseases of potato Christophe Lacomme, SASA, UK	F1-11: Experience in developing the domestic (China) and export processing markets in Asia Allen Wang, Snowvalley Agriculture Group, China	F1-14: From couch potato to performance fuel – repositioning the potato John Toaspern, Potatoes USA, USA
15:30 - 15:45	F1-04: Our treasure in the Andes: native potatoes in the Northern Highland of Peru Jose Ronal Otiniano, Pataz Association, Peru	F1-08: Emerging issues with pathogens and pests in Asia Ruofang Zhang, Inner Mongolia University, China	F1-12: Genome design of hybrid potato Sanwen Huang, AGIS-CAAS, Shenzhen, China	Panel Discussion with Q&A
15:45 - 16:30	Refreshments & Networking - kindly supported by Tayto Snacks			
16:30 - 17:20	PLENARY SESSION - CONCERT HALL			
16:30 - 16:55	PL-08: Global consumer trends in fresh produce Lauren M Scott, International Fresh Produce Association, USA			
16:55 - 17:20	PL-09: Fueling performance with potatoes Katherine Beals, University of Utah, USA			
17:20 - 17:30	Interview with Toms Skujiņš, professional cyclist			
17:30 - 17:45	WPC Industry Awards			
19:00 - 21:00	Congress BBQ - Clayton Ballsbridge Hotel			



## Timetable Wednesday, 1st June 2022

08:30 - 09:45	PLENARY SESSION - CONCERT HALL			
08.30 - 08.55	PL-10: No risk - No reward. Marketing potatoes in a world turned upside down Jason Davenport, Allied Potato Inc., USA			
08:55 - 09:20	PL-11: CGIAR - food systems and the potato Martin Kropff, CGIAR Global Director of the Resilient Agri-food Systems Science Area, France			
09:20 - 09:45	PL-12: The future of potato research and its contribution to food security and sustainability Paul Struik, Wageningen University, Netherlands			
10:00 - 11:20	INNOVATION SESSION - CONCERT HALL		SUSTAINABILITY SESSION - ROOM 2	
10:00 - 11:20	How new technology can impact the bottom line? Session Chair: Douglas Harley, Cygnet PB, Scotland		How does the potato fit into sustainable production? Session Chair: John Spink, Teagasc, Ireland	
10:00 - 10:20	C-07: Breeding the varieties of tomorrow (faster!) Dan Milbourne, Teagasc, Ireland		C-10: Food-nutrition security and sustainable intensification and diversification of agrifood systems: the role of potatoes Hugo Campos , CIP, Peru	
10:20 - 10:40	C-08: Intelligent technological innovations improve quality and yield along the value chain Franz Bernd Kruthaup, GRIMME, Germany		C-11: Growing challenges: crop protection and sustainable farming David Zaruk, Odisee University College, Belgium	
10:40 - 11:00	C-09: Embracing agri-tech for step changing the potato supply chain Vidyanath Gururajan, Branston, UK		C-12: Fertilisers, sustainability and the future Mike McLaughlin, University of Adelaide, Australia	
11:00 - 11:20	Panel Discussion		Panel Discussion	
11:20 - 11:45	Refreshments & Networking - kindly supported by DUG Drinks			
11:45 - 12:45	FOCUS SESSION 2			
	SEED & HYBRID POTATOES - CONCERT HALL	POTATO STORAGE - ROOM 2	TECHNOLOGY - ROOM 3	SUSTAINABILITY - THE FUTURE - ROOM 4
	Session Chair: Jadwiga Śliwka, Plant Breeding and Acclimatization Institute - National Research Institute, Poland	New tools to optimise the potato store of the future Session Chair: Ajay Jina, DormFresh Ltd., Scotland	Session Chair: Michael Hennessy, Teagasc, Ireland	Session Chair: Wachira Kaguongo, National Potato Council of Kenya, Kenya
11:45 - 12:00	F2-01: Micro-business seed production in Africa, South America and Asia Monica Parker, CIP, Peru	F2-05: Storage - a North American perspective Nora Olsen, University of Idaho, USA	F2-09: Soil, water and topography maps as a management tool to improve profitability and sustainability within the potato industry Evan McDonald, University of Prince Edward Island, Canada	F2-13: Our future sustainability outlook for potatoes: innovation and partnerships are key drivers for a sustainable transformation of global food systems Veerle Mommaerts, Bayer AG, Germany
12:00 - 12:15	F2-02: Hybrid potato breeding and the potential of true seed propagation Edwin van der Vossen, Solynta, Netherlands	F2-06: Storage post-CIPC: an overview of implications resulting from the recent loss of European regulatory approval for chlorpropham sprout suppressant Adrian Cunningham, Potato Storage Insight Ltd, UK	F2-10: The potato on Mars Jan Kreuze, CIP, Peru	F2-14: The sustainability credentials of the potato Elmar Schulte Geldermann, Bingen University of LifeSciences, Germany
12:15 - 12:30	F2-03: Insights into the latest developments in hybrid potato breeding Curtis Frederick, Aardevo, Netherlands	F2-07: The future of potato storage Kürt Demeulemeester, INAGRO, Belgium	F2-11: Precision crop spraying Mark James, John Deere, UK	F2-15: Sustainability and the future of food Charlie Angelakos, McCain Foods, Canada
12:30 - 12:45	F2-04: Supporting the potato seed sector with a novel hand-held biosensor for in-field PVY detection Alan O Riordan, Tyndall Institute, Ireland	F2-08: Potato storage in East Africa Derek Roulston, IPC, Ireland	F2-12: Every potato counts – the added value of optical sorting solutions Marco Colombo, TOMRA, Italy	F2-16: The future is here - organic potatoes! Andrew Skea, Skea Organics, Scotland
12:45 - 14:00	Lunch			



## Timetable Wednesday, 1st June 2022

14:00 - 15:00	POSTER SESSION			
	FOCUS SESSION 3			
	PROCESSED POTATOES - CONCERT HALL	FERTILISER, AGRONOMY & PLANT HEALTH - ROOM 2	BREEDING / NBTS - ROOM 3	RURAL DEVELOPMENT & THE POTATO - ROOM 4
15:00 - 16:00	<b>Session Chair:</b> Nora Olsen, University of Idaho, USA	<b>Session Chair:</b> Richard O'Hanlon, Department of Agriculture, Food and the Marine, Ireland	<b>Is breeding powering ahead or losing its way?</b> <b>Session Chair:</b> Hugo Campos, CIP, Peru	<b>Perspectives around the world</b> <b>Session Chair:</b> John Gilliland, Vita Ireland, Ireland
15:00 - 15:15	<b>F3-01: Dreamers who do. Focus on a sustainable potato processing industry</b> Filip Wallays, Agristo NV, Belgium	<b>F3-05: Wireworm in the UK. Recent work to improve risk assessment and detection of this cryptic pest</b> Martyn Cox, Blackthorn Arable Ltd., UK	<b>F3-09: Tracking the deployment of functional disease resistance genes in cultivars to inform breeding</b> Ingo Hein, James Hutton Institute, UK	<b>F3-13: Small Farmer Large Field (SFLF) model - rural communities in India</b> Sampriti Baruah, CIP, India
15:15 - 15:30	<b>F3-02: The production and marketing of frozen french fries in North America</b> Bret Nedrow, JR Simplot Company, USA	<b>F3-06: Irrigation and nitrogen management</b> Mark Stalham, Mark Stalham Potato Consultancy Ltd, UK	<b>F3-10: The bright future of new breeding techniques</b> Haven Baker, Pairwise, USA	<b>F3-14: The Irish Potato Coalition of Ethiopia - a platform for learning and collaboration</b> Mesfin Kebede Retta, Vita/IPCE, Addis Ababa, Ethiopia
15:30 - 15:45	<b>F3-03: Process management and IT solutions in sustainable raw material procurement</b> Jarosław Wańkowicz, Farm Frites Poland SA, Poland	<b>F3-07: The role that nature plays : microbial technologies in potato production</b> Nicolas Body, Alltech Crop Science, USA	<b>F3-11: Re-sequencing potato primary dihaploids to inform diploid and tetraploid breeding</b> Laura Shannon, University of Minnesota, USA	<b>F3-15: About 'hot potatoes' a resilient gold for farmers and cities in low-income countries</b> Gabriela Quiroga, AgriCord, Belgium
15:45 - 16:00	<b>F3-04: Unique potato-based innovations from Sweden</b> Emma Källqvist, Veg of Lund, Sweden and Graham Stonadge, Veg of Lund, UK	<b>F3-08: Potatoes under climate stress - the ADAPT project</b> Markus Teige, University of Vienna, Austria	<b>F3-12: What's happening with the regulation of new breeding techniques in Europe?</b> Ewen Mullins, Teagasc, Ireland	<b>F3-16: Successful poverty alleviation through the "Potato Empire" strategy in SW China</b> Peter VanderZaag, Sunrise Potato, Canada
16:00 - 16:30	Refreshments & Networking - kindly supported by Emerald Produce Ltd			
16:30 - 17:20	PLENARY SESSION - CONCERT HALL			
16:30 - 16:55	<b>PL-13: Planet of Plenty - making agriculture the solution to the problem</b> Robert Walker, Alltech European Bioscience Centre, Ireland			
16:55 - 17:20	<b>PL-14: Contribution of the potato to the SDG's and climate action</b> Tom Arnold, Irish Government's Special Envoy on Food Systems, Ireland			
17:30 - 18:15	WPC 2022 CONGRESS CLOSING - CONCERT HALL			
17:30 - 17:40	<b>Video introduction to the Dublin Declaration</b> John Gilliland, Vita Ireland, Ireland			
17:40 - 17:50	<b>Dublin Declaration</b> Romain Cools, President/CEO WPC Inc., Canada			
17:50 - 17:55	WPC Potato Ambassador			
17:55 - 18:05	WPC flag handover ceremony to Australia			
18:05 - 18:15	Closing remarks			
20:00	Congress Social Evening Guinness Storehouse - kindly supported by Wilson's Country			



# Plenary Speakers





## Government Address

### Monday, 30th May - Congress Opening Session

Charlie McConalogue TD, Minister for Agriculture, Food and the Marine, Ireland

Minister McConalogue was appointed as Minister for Agriculture, Food and Marine on 2 September 2020.

He was born in October 1977 and is from Gleneely in Co Donegal. From a farming background, he was educated at Carndonagh Community School before going on to study at UCD where he studied Economics, Politics & History. He first became involved in politics while attending UCD.

After working in Fianna Fáil Headquarters for a number of years, as well as working abroad in Australia, Minister McConalogue returned home to work on the family farm before being elected as a Donegal County Councillor in 2009. In 2011, Charlie was elected TD for Donegal North East.

Minister McConalogue was appointed previously as Minister of State at the Department of Justice and Equality with responsibility for Law Reform and prior to that, he held the positions of Fianna Fáil spokesperson for Children, Education and Skills, and Agriculture, Food and the Marine.



**Charlie McConalogue TD,**  
Minister for Agriculture,  
Food and the Marine,  
Ireland

### Monday, 30th May - Congress Opening Session

Janusz Wojciechowski, European Commissioner for Agriculture

Member of the European Commission since 1 December 2019, responsible for Agriculture, lawyer, attorney.

Commissioner Wojciechowski's responsibilities include supporting negotiations on the future of the CAP, developing a long-term vision for rural areas and developing an action plan for organic farming.

Commissioner Wojciechowski grew up on farm in rural Rawa Mazowiecka, Łódzkie region in central Poland. He had started his professional career as a judge at different levels up to being a judge of the Supreme Court of Poland. Then he held very significant post of the President of the Supreme Audit Office of Poland (1995-2001)

From 2001 Commissioner Wojciechowski represented Łódzkie constituency as a Member and also Vice-marshal of the Parliament of the Republic of Poland - Sejm (2001-2004) and from June 2004 till May 2016 as a Member of the European Parliament of 3 terms. As MEP he was Member of the European Parliament's Intergroup on the Welfare and Conservation of Animals in the European Parliament since his 1st term in 2004; since 2014 till 2016 its President.

From May 2016 to November 2019 he was the Member of the European Court of Auditors, representing Poland.



**Janusz Wojciechowski,**  
European Commissioner  
for Agriculture

### Monday, 30th May – WPC 2022 Plenary 1

Oscar Zea Choquechambi Minister of Agrarian Development and Irrigation of Peru

Oscar Zea Choquechambi is a Member of Parliament at the Congress of the Republic in Peru, for the Free Peru party, for the period 2021-2026. Graduated from the National University of the Altiplano of Puno. He has taught at the Pomaoca Educational Institution in Puno and has also undertaken various activities in the private sector.



**Oscar Zea  
Choquechambi** Minister  
of Agrarian Development  
and Irrigation of Peru





**Robert G. Kearns**  
Chairman of the Canada  
Ireland Foundation

## PL-01 – Monday, 30th May – WPC 2022 Congress Opening Session

### Ireland, Canada and the potato: a historical perspective

Robert G. Kearns<sup>1</sup>, Laura Smith<sup>2</sup>

<sup>1</sup>Canada Ireland Foundation, Toronto, Canada. <sup>2</sup>Canada Ireland Foundation, Burlington, Canada

#### Overview

Since Spanish Conquistadors transported it from North America across the Atlantic in the 16th century, the potato has been at the forefront of major global social movements. In Europe the widespread adoption of the potato radically altered European society. It laid the foundations of modern agriculture, provided food security and nutrition for millions, and fuelled the global dominance of Europe well into the 20th century.

In Ireland, the adoption of the potato was significant. Ideally suited to Ireland's climate, the potato offered the Irish peasantry an efficient, productive, and nutritious crop with which to strengthen its dairy-based diet and the country's population grew quickly as a result. This population boom was also the catalyst for wide-spread emigration from Ireland to the United States and throughout the British Empire, including to the Canadian colonies. By 1845 nearly 500,000 Irish, many lured by the promise of agricultural land, had settled in what is now Canada.

While the potato fuelled these radical changes, the failure of Ireland's potato crop in 1846 and 1847 was cataclysmic. Brought about by a blight originating in the Americas and spread from Europe, the resulting famine of unprecedented proportions radically altered Irish society, led to the deaths of millions and the emigration of at least a million more, including nearly 100,000 Irish who went to Canada.

#### Invited speaker biography

Robert G. Kearns, Chairman of the Canada Ireland Foundation, will tell the remarkable story of this remarkable root vegetable, with particular attention paid to its significance to the history of Canada and Ireland in the 19th century.

Born in Dublin, Robert G. Kearns graduated with a degree in Archaeology and Greek and Roman Civilizations from University College Dublin. He immigrated to Canada in 1979, where he built a successful career in the life insurance industry and established Kearns Insurance Corporation.

Robert has been deeply involved in a number of organizations within the Irish-Canadian community. Among other leadership roles, he is the Founder and Chair of the Canada Ireland Foundation. For his many years of dedication and service, Robert was recognized with the 2021 Lieutenant Governor's Ontario Heritage Award for Lifetime Achievement.





**HE QU Dongyu**  
DG FAO, United Nations

## PL-02 - Monday, 30th May – WPC 2022 Plenary Session 1

### The potato in a changing world

HE QU Dongyu  
DG FAO, United Nations, Italy

#### Overview

HE QU Gongyu, DG FAO, United Nations will deliver a paper on the potato in a changing world.

#### Invited speaker biography

Qu Dongyu, who took office on 1 August 2019 as Director-General of the Food and Agriculture Organization of the United Nations, has spent his life working on how to make sure the world is fed.

Born in 1963 to a rice-growing family in China's Hunan Province, Qu studied horticultural science at Hunan Agricultural University and then plant breeding and genetics at the Chinese Academy of Agricultural Sciences. He later added environmental science to his knowledge portfolio while earning a PhD at Wageningen University, in the Netherlands.

He then progressed through a range of national and international activities, engaged simultaneously in science and management, all during a time when China's reform and opening-up process led the country to dramatically reduce poverty and hunger in a country with 20 percent of the global population, 9 percent of the world's cultivated land, and where over 90 percent of the rural population is engaged in small holder farm operations working less than 3 hectares.

His vision is founded on the belief that freedom from hunger is a basic human right, and that in the 21st century we have the capability to eradicate chronic food insecurity. While challenges loom, Qu's cardinal principle is that "problems can also be the source of progress".

Before coming to FAO, Qu served as China's Vice Minister of Agriculture and Rural Affairs, where one of his achievements was to promote inclusive and innovative development and make sure information and communication technologies (ICT) were available in rural areas so that more than 400 million farmers could use their smartphones as a new farming tool.

That vision has been consistent across a professional career that includes periods in central and local government, in and leading research institutes, and as a human resources leader at the China Three Gorges Project Development Corporation, a \$40 billion investment project.

Among his national initiatives has been to improve reporting of wholesale prices for agricultural products in China and foster the establishment of more than 100 specialty production areas geared to making local comparative advantages work to the benefit of local farmers. As Vice Governor of Ningxia Hui Autonomous Region, one of China's landlocked and poorest areas, Qu formulated action plans aimed at poverty reduction, disaster reduction and prevention, women empowerment, agritourism and mutual learning platforms designed to boost trust between ethnic groups.

Qu says he represents the combination of an "Asian soul" and a "global mind". Recognized for scientific innovation as a young scholar, Qu has for 30 years been involved in international exchanges and orchestrated major events including the World Potato Congress, the International Rice Congress and the International Conference on Plant Protection, and participated in multilateral initiatives such as the World Trade Organization and the G20 as well as numerous bilateral initiatives involving Asia, Africa and Latin America. He has also directly helped design flagship South-South Cooperation projects with FAO and the World Bank.

His motto is "Simple life, but not simple work".

He is married, and has one daughter.





**Tara McCarthy**  
Chief Executive of Bord Bia

## PL-03 - Monday, 30th May – WPC 2022 Plenary Session 1

### Ireland - The Green Island

Tara McCarthy

Bord Bia - Irish Food Board, Dublin, Ireland

#### Overview

Ireland is renowned for its music, literature, culture, beautiful landscapes and as the land of a thousand welcomes. In recent decades and years, Ireland has developed a growing reputation for the production of great tasting food, drink and horticulture produce which is savoured by the many visitors who come to Ireland and indeed around the world where we annually export €13bn worth of food and drink.

This reputation is built on our family farm (and grass fed) tradition where the passion and love for the land and agriculture is passed down from generation to generation and underpins our modern food industry. Our farmers and growers are unique and innovative in how they produce quality ingredients for menus globally.

Our insight research tells us that consumers want nutritious food that is not just produced sustainably but has developed measurable proof points that underpin these sustainability credentials. In response Bord Bia developed the Origin Green Programme a decade ago, which encompasses all parts of the supply chain from the producer to the manufacturer to the market channel.

Origin Green is the world's only national food and drink sustainability programme, enabling Ireland's food industry to set and achieve measurable sustainability targets that respect the environment and serve local communities more effectively. Currently membership of the programme includes 55,000 farms, over 300 food manufacturers and 9 retail and food service companies. Over 90% of our farms and drink exports come from Origin Green member companies.

The overall ambition of the Origin Green programme is that Irish food, drink and horticulture is the first choice globally because it is trusted as sustainably produced by people who care.

Origin Green has a crucial role to play under the Government's 10 year strategy for Ireland's food and drink sector, which envisions Ireland becoming a world leader in sustainable food systems over the next decade. Such a food system is profitable throughout, has broad-based benefits for society and has a positive, or neutral impact, on the natural environment.

#### Invited speaker biography

Tara McCarthy is the Chief Executive of Bord Bia, the Irish Food Board since 2017 and brings with her over 25 years' experience in the wider food industry. She was previously Chief Executive for Bord Iascaigh Mhara (BIM), Ireland's seafood development agency and has lived and operated in overseas markets such as Germany, France and Belgium for over 10 years.

Tara's hallmarks are her unwavering belief in people and her passion for the opportunities to be found within sustainably produced food. She has led capability initiatives for students, early career executives and entrepreneurs within the food industry for over a decade with successful partnerships formed both nationally and internationally. In 2019 she co-founded Agdif an industry initiative championing diversity in the Irish food industry. She has represented Ireland's food industry globally speaking of Origin Green, Ireland's unique national sustainability programme and in 2021 led the establishment of the Origin Green Global Council.

Tara holds a Bachelor of Commerce degree from UCG with an MBS in Marketing from Smurfit Business School and is an affiliate of IMD Business School, Switzerland. Tara has been recognised with a number of awards including UCG Alumna of the Year for Business and Commerce in 2017, Fellowship of the Marketing Institute of Ireland and Top 25 Ireland's Most Powerful Women – Public Sector Leaders Award in 2018, and the 2019 UCD Smurfit School 'Alumna of the Year'





**Tomasz Bienkowski**  
Polish Potato Federation

## PL-04 - Monday, 30th May – WPC 2022 Plenary Session 1

### Poland as a coordinator in the reconstruction of the Ukrainian potato industry

Tomasz Bienkowski

Polish Potato Federation, Warsaw, Poland

#### Overview

According to geopolitical situation and war in Ukraine there is a lot of needs of support. One of way of this support is helping in rebuilding Potato market in Ukraine after the war and help now by sending aid in different forms like ware Potato or Products Made from potatoes. Also it is very important to send seed materials for restarting production in Ukraine. Poland is very close to Ukraine and wants to be an aid Hub for this mission. Presentation of our capabilities should be usefull for coordinating aid and its logistics for Ukraine.

#### Invited speaker biography

Tomasz Bieńkowski PhD, specialist in the field of plant production, in particular breeding and seed production of cereals and potatoes. Since 2000, the president and owner of CN Nidzica - one of the largest seed and breeding enterprises in Poland. At the same time, as a farmer, he runs a specialized commercial seed farm. In the years 2007-2013 an expert under the 7th EU framework program - AGREE. Co-founder and President of the Polish Potato Federation. Active member of Europatat including the seed committee and RUCIP. Founder of the first RUCIP representative office in Poland. For several years, the co-organizer and commissioner of the international POTATO POLAND fair - one of the most important events in the international potato industry. Coorganiser of the Polish Potato Congress. Currently, the deputy chairman of the Fruit and Vegetable Promotion Fund in National Agriculture Support Center and a member of the Program Council of the Polish Plant Health Inspection. One of the co-creator of Polish potato program 2020-2025. Initiator of the establishment of the Polish Parliamentary Team for the Development of the Potato Industry. Promotor of Polish and European agri-food products, especially Polish potato, not only on the domestic but also on the international markets.





Chris Koch

## PL-05 - Tuesday, 31st May 2022 Plenary Session 2

If I can...

Chris Koch

Canada

### Overview

The limitations we face in life are often the ones we place on ourselves. Chris Koch's inspirational "If I Can" presentation is about making the most out of life, with a focus on appreciating what we have instead of worrying about what we don't. Despite being born without arms and legs, Koch didn't let limitations and obstacles stand in the way of achieving his goals and dreams. He still grew up working on his family farm, and has spent his adult life snowboarding, running marathons, and travelling independently.

If a guy without arms and legs can do all this, he says, we are all capable of some pretty amazing things. Sharing experiences and funny anecdotes from his life, Koch leaves his audiences motivated and empowered to build the life they dream of.

### Invited speaker biography

Chris Koch doesn't let limitations or obstacles stand in his way. Despite being born without arms and legs, Koch grew up like any other small-town kid — playing road hockey, causing mischief at school, and helping out on his family farm. Neither he or his family treated his disability like a tragedy, and instead used it to fuel his dreams. Today, Koch is a motivational speaker who inspires his audiences to continually challenge themselves and build the life they dream of.

Session kindly supported by John Deere







**Damien McLoughlin**  
UCD Smurfit School

## PL-06 - Tuesday, 31st May 2022 Plenary Session 2

### The global food market of the near future

Damien McLoughlin  
UCD Smurfit School, Dublin, Ireland

#### Overview

The global food environment is changing rapidly, significantly but also consistently. This paper will identify five areas of consistent change, development and progress and explore their dynamics over the coming near years. These five areas are: Digitisation, Sustainability, Consumer Behaviour, Capital and Supply Chain. A framework for managers to think through these changes and interpret them for their own business will be outlined.

#### Invited speaker biography

Damien McLoughlin is Anthony C. Cunningham Professor of Marketing at UCD Michael Smurfit Graduate Business School in Ireland. Damien has been a visiting professor at some of the world's preeminent business schools including the S.C. Johnson Graduate School of Management at Cornell University, the Indian School of Business, ESMT (Berlin) and IMD. Damien has also contributed to senior executive programs in Agribusiness at both Harvard Business School and Purdue University. Since 2014 he has been a visiting professor at the Stern School of Business at New York University and in 2021 was a visiting professor at the Tuck School at Dartmouth College. Damien has published more than seventy papers and two books on strategy and marketing issues as well as twenty-five case studies relating to leadership and strategy issues in global food and agribusiness, covering all geographies and major sectors. Recent cases have included Tyson Foods, Bayer Crop Science, Ocado and Kerry Group, Zoetis and Danish Crown. Damien is a member of the external advisory network of Bain & Co Consulting. As a director Damien has served several public sector organisations including the Medical Council of Ireland (2008-2013), where he chaired the Audit Committee for five years, HIQA (2010-2012) and Bord Iascaigh Mhara (2015-2020). Damien was recently appointed as non-executive director of Kepak, one of Europe's leading food firms. Damien holds a Bachelor of Business Studies degree from Dublin City University, a Master of Business Studies degree from University College Dublin and PhD in Marketing from Lancaster University (UK).



**Cedric Porter**  
Editor, World  
Potato Markets

## PL-07 - Tuesday, 31st May 2022

### Plenary Session 2

#### The dynamic global potato market

Cedric Porter

World Potato Markets, Tunbridge Wells, United Kingdom

#### Overview

The presentation will demonstrate how potato production, processing and trade is evolving as large trading regions such as North America come under production pressure and competition from other regions. The talk will be illustrated with unique information and data from World Potato Markets showing how the crop has evolved during the 21st Century and what potential it has for the future. The impact of the Covid pandemic will be discussed, along with other major global trends such as rising costs of production and tackling climate change.

The presentation will focus on the marketing opportunities for one of the world's most important crops and how that could benefit potato growers, packers, processors and consumers. It will include references to the cultural as well as agricultural contribution of potatoes in the past and future.

#### Invited speaker biography

Cedric Porter is the Editor of the weekly global briefing World Potato Markets which covers trade, production and pricing of potatoes and potato products. He is UK-based and also publishes regular briefings on Brexit and the food industry. He is Vice Chair of the Linking Environment And Farming charity, a director of a large UK potato and arable farm and a member of the UK's Trade & Agriculture Commission which analyses UK trade deals.





**Lauren M. Scott**  
Chief Strategy Officer of  
the International Fresh  
Produce Association

## PL-08 - Tuesday, 31st May 2022 Plenary Session 3

### Global consumer trends in fresh produce

Lauren M Scott

International Fresh Produce Association, Newark, DE, USA

#### Overview

Consumers are the ultimate buyer for any product, including potatoes. This presentation will review world events and changing landscape that drive consumer behaviours. We will discuss the latest trends that will impact the produce industry. The presentation will explore the role of food, retail and commerce, attitudes towards sustainability and how produce is linked to the health and well-being of people around the world. More than a food source, produce is emerging as the answer to change the trajectory of lives all around the world with the potato at the heart of this movement.

#### Invited speaker biography

Lauren M. Scott is the Chief Strategy Officer of the International Fresh Produce Association, the largest and most diverse organization serving the entire fresh produce and floral supply chain. Prior to joining an association in 2016, Lauren garnered over 20-years experience in the consumer products industry at PepsiCo, Diageo and Colgate-Palmolive. A believer in continuous education and development, Lauren earned her undergraduate degree in Marketing from Rutgers University, a MBA from University of Maryland and a Master of Science in Strategic Communication from Columbia University. Lauren's civic passions include combating food insecurities and perpetuating arts and culture.



**Katherine A. Beals**  
 Associate Professor,  
 Department of Nutrition  
 and Integrative Physiology  
 at the University of Utah

## PL-09 - Tuesday, 31st May 2022

### Plenary Session 3

#### Fueling performance with potatoes

Katherine A. Beals

Department of Nutrition and Integrative Physiology, University of Utah, Salt Lake City, UT 84112, USA

#### Overview

Rich in quality carbohydrates, vitamins and minerals potatoes are an ideal whole food to meet the nutritional needs of athletes. Specifically, potatoes provide the carbohydrate athletes need to fuel muscle and brain function, B vitamins to assist in metabolic processes, potassium to aid in fluid balance, nerve impulse conduction and muscle contraction, vitamin C to support collagen synthesis and immune function and protein to promote muscle tissue synthesis. This presentation will provide an overview of potato nutrition as it relates to athletic performance and will highlight recently published research demonstrating the benefits of consuming potatoes before, during and after exercise.

#### Invited speaker biography

Katherine Beals, PhD, RD, FACSM, CSSD is an Associate Professor (clinical) in the Department of Nutrition and Integrative Physiology at the University of Utah where she teaches graduate courses in research methods, macro and micronutrient metabolism and sports nutrition. In addition, Dr. Beals has provided nutritional and scientific counsel to a number of US commodity boards, including Potatoes USA, developing and directing their nutrition research programs and assisting with their nutrition communications and public relations.

Dr. Beals holds a PhD in Exercise Science and Physical Education from Arizona State University, is a Registered Dietitian, a fellow of the American College of Sports Medicine and a Certified Specialist in Sports Dietetics. She has published numerous articles in peer-reviewed journals and is a frequent speaker on a variety of nutrition topics at both national and international nutrition conferences.





**Jason Davenport**  
President and CEO of the  
Allied Potato Group

## PL-10 - Wednesday, 1st June 2022 Plenary Session 4

No risk no reward. Marketing potatoes in a world turned upside down

Jason Davenport  
Allied Potato, Inc., Bakersfield, USA

### Overview

We all come from diverse backgrounds and upbringings. My own upbringing gave me valuable challenges unique to me that allowed me to think about potatoes from a different point of view. I started my company at the age of 29, utilizing my unique life lessons to pave the way for how I would come to accept risk in a very difficult potato industry. From exporting potatoes, creating new markets, and looking for unique branding opportunities; we have grown as a company much the same as we all hope to grow from our various lessons that life finds a way to offer us each day. For me I have come to embrace mistakes and then cherish the process of learning from experience. Because I started making mistakes in life very early on. The curve for gaining experience and handling pressure changed for me at a fairly rapid pace. After all of this, I now choose to direct my business knowing that mistakes are possible and around every corner mostly due to my own possible errors or lack of "shooting down our own ship" mentality. Because if I cannot find a way to plug the wholes of my own making, our ships will never sail.

### Invited speaker biography

Jason Davenport is the President and CEO of the Allied Potato group of companies headquartered in Bakersfield California with farming operations in California, Washington, Oregon, and Colorado. Jason was raised on a farm near Boise Idaho and is a 5th Generation farmer and 1st generation college graduate from the University of Idaho with a Bachelor of Science in Plant Science. Currently Jason is serving as the Chairman of the Executive Board for Potatoes USA as well as serving on other boards and committees. Jason has been married to Nichole Davenport for 26 years and has 4 amazing children.



**Prof. Dr. Martin Kropff**  
Global Director, Resilient Agri-Food Systems, CGIAR

## PL-11 - Wednesday, 1st June 2022

### Plenary Session 4

#### CGIAR - Food systems and the potato

Prof. Dr. Martin Kropff

CGIAR Global Director of the Resilient Agri-food Systems Science Area (RAFS), Montpellier, France. Wageningen University, Wageningen, Netherlands

#### Overview

The potato has been a staple for centuries. Its continued place in our diets depends on the sustainability of the entire food system: how we produce, gather, transport, process, trade and consume potatoes. But food systems burden the climate and environment with unsustainable costs. For the world to continue to feed itself and offer employment in sustainable agriculture, our food systems – and the way we manage land and water systems – need urgent and profound reform.

By integrating science, technology, and holistic agricultural innovations with food systems stakeholders, One CGIAR and its partners help deliver the tools, knowledge and support to improve global food and nutrition security.

As pests and diseases continue to threaten the potato – just as the late blight devastated the Irish potato harvest in 1845 – scientists across CGIAR and partners are preparing innovative solutions (Global Research Initiatives) to ensure food security and livelihoods for the world's poorest.

An example of one of these Initiatives as part of the Resilient Agri-Food Systems science area is the Plant Health Initiative (PHI). PHI aims to protect key crops – cereals, food legumes, roots, tubers, bananas, and vegetables – from devastating pests and diseases and mycotoxin contamination. Similarly, the Excellence in Agronomy Initiative will contribute to reducing the potato yield gap in low and middle-income countries in Africa, Asia and Latin America through improved crop management.

In addition, building on decades of expertise, there are Global Research Initiatives dealing with better conservation and utilization of genetic resources through the CGIAR genebanks, where genetic diversity of potatoes continues to be conserved, studied and used for future generations. This genetic diversity will be used in breeding and seed delivery related initiatives to make sure that suitable potato varieties that respond to farmer, consumer and market demands in Africa, Asia and Latin America.

#### Invited speaker biography

Martin Kropff is the Global Director of CGIAR's new Resilient Agro-Food Systems science area. In this role, he is building the world's largest scientific group on resilient agri-food systems and uniting scientists across 6 regions in Asia, Africa and Latin America and through 15 Research Initiatives in themes such as farming, cropping and livestock/aquatic food systems.

From 2015 and up until the middle of 2021, he was Director General of the International Maize and Wheat Improvement Center (CIMMYT). At CIMMYT, he led the development and implementation of a new Strategic Plan for science with impact at scale. He also helped frame the One CIMMYT philosophy, which encourages a shared mission and vision through scientific excellence, impact through partnerships and capacity development.

Before joining CIMMYT, Kropff was rector magnificus of Wageningen University and vice chair of the executive board of Wageningen University and Research. During his 10 years' tenure, it developed into the highest-rated agricultural university in the world. He was also a member of the Top Team developing the Agri & Food TopSector in the Netherlands.

Kropff has had a critical role in the development of One CGIAR, leading the 2016 reform, serving on the first System Management Board, and contributing to the CGIAR 2030 Research and Innovation Strategy as co-chair of the advisory group.

Kropff earned a graduate degree in biology at Utrecht University and a Ph.D. at Wageningen University, both cum laude. He holds honorary doctorates from the National University of Life and Environmental Sciences, Ukraine and the Czech University of Life Sciences. He concurrently holds a professor position with Wageningen University.

His scientific background is in systems agronomy, agroecology, crop modelling and climate smart agriculture. He has supervised more than 30 Ph.D. students, many of them working in developing countries.





**Paul Struik**

Prof. of Crop Physiology  
at Wageningen University

## PL-12 - Wednesday, 1st June 2022 Plenary Session 4

### The future of potato research and its contribution to food security and sustainability

Paul Struik

Wageningen University and Research, Wageningen, Netherlands

#### Overview

Potato plays an important role in the Zero Hunger Challenge, supported by international collaboration in research. Research is critical as current potato cultivation and processing leaves room for improvement in productivity, efficiency and sustainability, with serious problems persisting and new problems arising. Potato responds strongly to nutrient and water inputs, fluctuating weather and global change. Potato is affected by far more pests and diseases than cereals, has complex breeding and seed systems, and demonstrates strong genotype-by-environment interactions.

Research increasingly unlocks what potato offers to enhance food security and sustainability, by boosting its resilience and robustness, lowering its ecological footprint, and enhancing regenerative potato farming and potato processing. This talk highlights research and innovation options to produce healthy potatoes in diverse, sustainable, resource-efficient food systems, saving water, fertilizer, agro-chemicals, labour and land, while reducing undesired emissions.

Agronomic research should address yield gaps, especially in Africa; locally adapted seed systems; regeneration of diseased seed stocks; reduced and guided use of agro-chemicals while also protecting the arsenal of natural resistances; and use of biostimulants and biocontrol agents. Physiological research should study tuber size dynamics, develop omics-based assessment systems of tuber quality, and design guidance to adaptation to climate change through modelling. Research on storage and utilization should prioritize natural sprout suppressants, waste management and decarbonization. Pathology research should prioritize control of soil- and seed-borne bacteria, study biocontrol, and develop large-scale molecular diagnostics. Breeding research should aim for resilience and robustness through systems-based approaches, next-generation biotechnological tools, resistance genes, and healthy food, e.g., through biofortification.

Technological developments, including artificial intelligence, sensor technology, remote sensing, digital twins and data science, and biotechnology, will support these research efforts. Social sciences are equally essential in securing potato's role in food security and sustainability, support regulation and compliance with labels, and improve the image of potato.

#### Invited speaker biography

Paul Struik is Professor of Crop Physiology at Wageningen University, the Netherlands. He is involved in research projects on root and tuber crops in Africa, South America, Asia and Europe, with a focus on crop physiology, seed production technology, and seed systems. He is (co-) author of more than 500 papers in international scientific journals, many of them on potato. He has successfully completed the supervision of more than 115 PhD candidates and is currently supervising about 30 PhD students. He is Editor-in-Chief of Potato Research and Academic Editor of Annals of Applied Biology, Frontiers in Plant Science, and PLoS ONE.



**Robert Walker**  
 European Growth Officer  
 at Alltech and  
 CEO of Keenan

## PL-13 - Wednesday, 1st June 2022

### Plenary Session 5

Planet of plenty – making agriculture the solution to the problem

Robert Walker

Alltech, European Bioscience Centre, Dunboyne, Co. Meath, Ireland

#### Overview

The increasing importance of the Green economy represents a unique opportunity for Agriculture to reposition as a solutions provider. Agriculture has been portrayed in the media as the cause of issues ranging from climate change to environmental pollution to poor animal welfare to human health issues, and many more. However, agriculture has the unique ability to not only mitigate these issues but in fact to reverse them. Our agricultural industry is set to undergo rapid and significant change in the coming years with accelerated consolidation driven by the green economy, consumer trends, the rise of ag-tech and bio-tech, pandemics, and geopolitics. Convergence of agriculture with adjacent industries will result in opportunities in “agri-food”, “agri-health”, “agri-estates”, “agri-finance”, “agri-energy”, and many others!

Alltech, a startup in 1980, has grown to become a multi-billion-dollar company with over 5000 employees in over 120 countries. This phenomenal growth has been fueled by the founder’s vision of providing agricultural nutrition solutions that benefit Agriculture, Consumer and Environment. Today, the company vision has been updated to reflect the interconnectedness of our complex supply chains, and Alltech is driven to work with partners to create a “Planet of Plenty”. Alltech has embraced the opportunities presented by the changes in our industry.

To find opportunity in the change we need to be receptive to product and business model innovation and have a bias to action. Our teams should be driven by passion and purpose.

#### Invited speaker biography

As the European growth officer, Robert Walker serves as the CEO of KEENAN and head of key European markets for Alltech. He drives business growth via his work with ag-tech startups as manager of the Pearse Lyons Cultivator and via his responsibility for senior leadership talent development in the Alltech Mini-MBA program.

Walker joined Alltech in 2002 as a sales manager in Ireland. He later opened a regional sales office in Northern Ireland. In 2005, he transferred to Italy, where he served as country manager for Alltech before transitioning to the role of regional director of the eastern Mediterranean region. In 2011, Walker was appointed European director of Alltech Crop Science, based in Italy, and in 2013, he transferred to the U.S. to assume the position of global general manager for Alltech Crop Science. In 2016, Walker transferred to Ireland to assume his current position as CEO of KEENAN.

Walker received a bachelor’s degree in agriculture from the University of Natal in South Africa in 1994. After graduating, he founded his own indoor farming enterprise in South Africa, through which he grew and packed flowers and tomatoes. Walker has also completed business courses at the University College Dublin Smurfit Graduate Business School and the Bocconi School of Management in Milan.





**Tom Arnold**

Chair, Irish 2030 Agri-Food  
Strategy Committee

## PL-14 - Wednesday, 1st June 2022 Plenary Session 5

### Contribution of the potato to the SDG's and climate change

Tom Arnold

Irish Government's Special Envoy on Food Systems, Dublin, Ireland

#### Overview

The world is faced with two existential challenges by 2050: how to provide food and nutrition security for a population of close to 10 billion people while meeting the climate target of restricting the increase in global warming to 1.5 degrees above pre-industrial levels. This presentation will trace the growing importance of the potato in contributing to farming systems, to farm household income, and to nutrition. It looks forward to how this contribution can be further enhanced in the decades to 2050, identifying the policies, research priorities and development strategies to optimise the role of the potato in meeting the SDGs and the targets for climate action.

#### Invited speaker biography

Tom Arnold has served in various governmental and non-governmental roles at Irish, European and international level. His current and recent roles include: Chair, Irish 2030 Agri-Food Strategy Committee; Chair, EU Commission Task Force, Rural Africa; Coordinator, Scaling Up Nutrition (SUN) Movement; Director General, Irish Institute for International and European Affairs; Chair, Irish Constitutional Convention; Member, Global Panel on Agriculture and Food Systems for Nutrition; Board Member, Global Alliance for Improved Nutrition (GAIN). In his earlier career, he served as CEO, Concern Worldwide; Chief Economist and Assistant Secretary General, Irish Department of Agriculture and Food; Chair, OECD Committee of Agriculture; Administrator, EU Commission. He is a graduate in agricultural economics from University College Dublin (UCD) and has Masters degrees from the Catholic University of Leuven and Trinity College, Dublin.



# Poster Listing





Code	Title	Authors
P-001	Resilience building through larger drip irrigation: lessons and best practices - a case of Dedza and Balaka Districts in Malawi (in draft form)	<b>Welton Phalira, Charles Mkomwa, Reuben Kainga</b> United Purpose, Dedza, Malawi
P-002	Application of active and passive optical sensors for phosphorous management in potatoes ( <i>Solanum tuberosum</i> L.)	<b>AYUSH SHARMA, Amanpreet Sandhu, Julia Barra Netto Ferreira, Bortolozo Fernando Rodrigo, Aditya Singh, Lincoln Zotarelli, Lakesh Sharma</b> University of Florida, Gainesville, USA
P-003	Growth and yield characters of potato genotypes grown under different practices at Karnali Province, Nepal	<b>Binod Prasad Luitel</b> Horticulture Research Station, Nepal Agricultural Research Council, Dailekh, Nepal. National Potato Research Program, Nepal Agricultural Research Council, Khumaltar, Lalitpur, Nepal
P-004	Effect of the use of windbreaks and irrigation on the quality and yield of potato crops in Magallanes Southernmost Chile	<b>Carolla Martínez, Nicolas Ojeda</b> Instituto de Investigaciones Agropecuarias INIA, Punta Arenas, Chile
P-005	Use of a soil health enhancer and priming agent to improve soil microbial activity and increase tuber-set and yield in potato	<b>Cian Mahony<sup>1</sup>, Fiaz Rasul<sup>1,2</sup>, Kieran Guinan<sup>1</sup>, Sivaprakash Kurumanghat<sup>1</sup>, John O'Sullivan<sup>1</sup>, Neerakkal Sujeeth<sup>1</sup></b> <sup>1</sup> BioAtlantis Ltd., Clash Industrial Estate, Tralee, Co-Kerry, V92RWV5, Tralee, Ireland. <sup>2</sup> Institute of Biochemistry and Biology, University of Potsdam, Karl Liebknecht Str. 24-25, 14476, Potsdam-Golm, Germany
P-006	Physiological response and yield components under nitrogen deficiency stress in three potato varieties under greenhouse conditions	<b>Leire Barandalla<sup>1</sup>, Alba Alvarez-Morezuelas<sup>1</sup>, Enrique Ritter<sup>1</sup>, Maite Lacuesta<sup>2</sup>, Patrick Riga<sup>3</sup>, Leire Benedicto<sup>3</sup>, Jose Ignacio Ruiz de Galarreta<sup>1</sup></b> <sup>1</sup> NEIKER-BRTA. Campus Agroalimentario de Arkaute, Vitoria, Spain. <sup>2</sup> UPV-EHU, Pº de la Universidad 7-01006, Vitoria, Spain. <sup>3</sup> NEIKER-BRTA. Parque Tecnológico de Bizkaia, Derio, Spain
P-008	Development of nitrogen fertilizer strategies using yield goal for chipping potatoes	<b>Lincoln Zotarelli<sup>1</sup>, Tara Wade<sup>2</sup>, Gary England<sup>3</sup>, Christian Christensen<sup>3</sup></b> <sup>1</sup> University of Florida, Gainesville, USA. <sup>2</sup> University of Florida, Immokalee, USA. <sup>3</sup> University of Florida, Hastings, USA
P-009	More for less - Nanobubble-enhanced potato growth: low-energy, clean and eco-friendly	<b>Niall J. English, Mohammad Reza Ghaani</b> UCD, Dublin, Ireland
P-010	Effect of five frost control systems on foliage protection and yield of potato crops in the subantarctic region of South America.	<b>Nicolas Ojeda, Carolla Martínez</b> National Institute for Agricultural Research (INIA), Kampenaike Regional Research Center, Punta Arenas, Chile
P-011	Can drought stress explain potato yield variability in the Netherlands?	<b>Arie Ravensbergen, Nicole Ramsebnar, David De Wit, Corné Kempenaar, Pytrik Reidsma, Martin van Ittersum</b> Wageningen University and Research, Wageningen, Netherlands
P-012	Using agronomic forecasting tools to improve crop value and efficiency of production	<b>Robert Allen, Joseph Mhango</b> Crop4Sight, Peterborough, United Kingdom
P-013	Examination of 2 different irrigation crop models for automated irrigation of potatoes under the Idaho/east Oregon climate conditions	<b>Ami Gips<sup>1</sup>, Yechiam Gets<sup>1</sup>, Ofer Halperin<sup>1</sup>, Prof Clinton Shock<sup>2</sup>, Erik Feibert<sup>2</sup></b> <sup>1</sup> Netafim AG Department, Magal, Israel. <sup>2</sup> Oregon State University, Ontario, USA
P-014	Laboratories and on-farm studies on the physical, chemical, and biostimulant influence of soluble humin on soil health, fertilizer, and water-use efficiency	<b>Mir Seyedbagheri</b> Bio-Gro, Mabton, USA
P-015	Comparison of the standard and adapted calculation of Area Under Canopy Cover Progress Curve to evaluate potato nitrogen use efficiency	<b>Lāsma Rābante-Hāne<sup>1,2</sup>, Ilze Skrabule<sup>1</sup>, Ilze Dimante<sup>1</sup>, Inese Taškova<sup>1,2</sup></b> <sup>1</sup> Institute of Agricultural Resources and Economics, Crop Research Department, Priekulji, Latvia. <sup>2</sup> Latvia University of Life Sciences and Technologies, Jelgava, Latvia
P-017	Evapotranspiration partitioning, crop coefficients, tuber yield and irrigation water productivity for a potato crop under water-limited conditions in southern Chile	<b>Rafael López-Olivari<sup>1</sup>, Sigfredo Fuentes<sup>2</sup>, Carlos Poblete-Echeverria<sup>3</sup></b> <sup>1</sup> Instituto de Investigaciones Agropecuarias, INIA Carillanca, km 10 camino Cajón-Vilcún s/n, Casilla 929, Temuco, Chile, Temuco, Chile. <sup>2</sup> Digital Agriculture, Food and Wine Sciences Group, School of Agriculture and Food, Faculty of Veterinary and Agricultural Sciences, The University of Melbourne, Parkville, VIC 3010, Australia, Melbourne, Australia. <sup>3</sup> South African Grape and Wine Research Institute (SAGWRI), Department of Viticulture and Oenology, Faculty of AgriSciences, Stellenbosch University, Private Bag X1, Matieland 7602, South Africa, Stellenbosch, South Africa

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P-018	Applications of machine learning to improve crop management	<b>Robert Allen, Joseph Mhango</b> Crop4Sight, Peterborough, United Kingdom
P-019	Using natural elicitors to improve rapid wound healing responses in cut potato tubers	<b>Pradeepika Chintha<sup>1,2</sup>, Dipayan Sarkar<sup>1</sup>, Ramnarain Ramakrishna<sup>1</sup>, Munevver Dogramaci<sup>3</sup>, Edward Lulai<sup>3</sup>, Kalidas Shetty<sup>1</sup></b> <sup>1</sup> North Dakota State University, Fargo, ND, USA. <sup>2</sup> ICAR-Central Tuber Crop Research Institute, Thiruvananthapuram, Kerala, India. <sup>3</sup> United States Department of Agriculture, Agricultural Research Service, Fargo, ND, USA
P-023	Occurrence of fungicide resistance in anastomosis groups of <i>Rhizoctonia solani</i> in Idaho	<b>Katie Malek<sup>1</sup>, Alan Malek<sup>1</sup>, Shelbie Anderson<sup>1</sup>, Phillip Wharton<sup>1</sup>, James Woodhall<sup>2</sup></b> <sup>1</sup> University of Idaho, Aberdeen, USA. <sup>2</sup> University of Idaho, Parma, USA
P-024	Developing redox-based technology for early detection of environmental stresses and leaf diseases in potato plants with whole-plant imaging technology.	<b>Matanel Hipsch, Shilo Rosenwasser</b> The Robert H. Smith Faculty of Agriculture, Food and Environment. The Hebrew University of Jerusalem, Rehovot, Israel
P-025	Bacterial wilt infection burden in the seed potato system in Ethiopia: A case of Oromia and SNNP regions	<b>Lemma Tessema<sup>1</sup>, Rogers Kakuhenzire<sup>2</sup>, Ebrahim Seid<sup>3</sup>, Kasaye Negash<sup>1</sup></b> <sup>1</sup> Researcher, Addis Ababa, Ethiopia. <sup>2</sup> Assistant Scientist, Project coordinator, Addis Ababa, Ethiopia. <sup>3</sup> Researcher, Holetta, Ethiopia
P-026	Enrichment sequencing for better understanding on the dynamics of <i>P. infestans</i> effectors in order to reduce future fungicide inputs	<b>Amanpreet Kaur<sup>1,2</sup>, Jeroen Sjoerd Stellingwerf<sup>2</sup>, Miles Armstrong<sup>3</sup>, Dan Milbourne<sup>2</sup>, Ewen Mullins<sup>2</sup>, Ingo Hein<sup>3</sup></b> <sup>1</sup> Division of Plant Sciences at James Hutton Institute, Dundee, Scotland, United Kingdom. <sup>2</sup> Teagasc, Crop research Centre, OakPark, Carlow R93 XE12, Ireland. <sup>3</sup> Division of Plant Sciences at James Hutton Institute, University of Dundee, Dundee, Scotland, United Kingdom
P-027	Phytosanitary situation of three RNA viruses from potato ( <i>Solanum tuberosum</i> ) using RT-PCR in the main potato seeds production zones of Peru	<b>Maria Julia Gonzales Llontop<sup>1</sup>, Hans Carreño Fernandez<sup>2</sup>, Cesar Obed Cotera Huayhua<sup>2</sup>, Edgar Neyra Valdez<sup>2</sup>, Ladislao Palomino Flores<sup>3</sup></b> <sup>1</sup> Instituto Nacional de Investigación En Glaciares y Ecosistemas de Montaña, Lima, Peru. <sup>2</sup> Universidad Peruana Cayetano Heredia, Lima, Peru. <sup>3</sup> Instituto Nacional de Innovación Agraria, Cusco, Peru
P-029	Mechanisation: one helpful tool for reducing pesticide use	<b>Michel Martin<sup>1</sup>, Cécile Roques<sup>2</sup>, Coraline Dessienne<sup>2</sup></b> <sup>1</sup> ARVALIS-Institut du végétal, Estrées Mons, France. <sup>2</sup> ARVALIS-Institut du végétal, Boigneville, France
P-030	ScabEomics: Effector-based breeding for resistance to <i>Spongospora subterranea</i> (powdery scab) in potato	<b>Maria de la O Leyva Perez<sup>1,2</sup>, Theo A.J. van der Lee<sup>3</sup>, Denis Griffin<sup>2</sup>, Marga P.E. van Gent-Pelzer<sup>3</sup>, Jeanne Mehenni-Ciz<sup>2</sup>, Dan Milbourne<sup>2</sup>, Ueli Merz<sup>4</sup>, Leah Tsror<sup>5</sup>, Jack H. Vossen<sup>1</sup></b> <sup>1</sup> University of Wageningen and Research. Department of Plant Breeding, Wageningen, Netherlands. <sup>2</sup> Teagasc. Department of Crop Science, Carlow, Ireland. <sup>3</sup> University of Wageningen and Research. Department of Biointeractions and Plant Health, Wageningen, Netherlands. <sup>4</sup> Plant Pathology/IBZ, Zurich, Switzerland. <sup>5</sup> ARO, Gilat Research Center, Negev, Israel
P-031	Pre- and postharvest treatments to control potato black dot - an integrated approach.	<b>Marta Sanzo-Miró<sup>1</sup>, Faisal I. Rezwan<sup>2</sup>, Daniel Simms<sup>3</sup>, Leon A. Terry<sup>1</sup>, M. Carmen Alamar<sup>1</sup></b> <sup>1</sup> Plant Science Laboratory, Cranfield University, Bedfordshire MK43 0AL, United Kingdom. <sup>2</sup> Department of Computer Science, Aberystwyth University, Pengllys Campus, Aberystwyth SY23 3FL, United Kingdom. <sup>3</sup> Centre for Environmental and Agricultural Informatics, Cranfield University, Bedfordshire MK43 0AL, United Kingdom
P-032	Dual fungicide resistance in <i>Alternaria solani</i> and <i>Alternaria alternata</i> field isolates in South Germany	<b>Michael Zellner, Mathias Nottensteiner</b> Bavarian State Research Center for Agriculture, Freising, Germany
P-033	Strategy for detection of Rpi genes in potato cultivars, breeding lines and wild <i>Solanum</i> species	<b>Paulina Paluchowska<sup>1</sup>, Marta Janiszewska<sup>1</sup>, Erik Lysøe<sup>2</sup>, Simeon Rossmann<sup>2</sup>, Mirella Ludwiczewska<sup>1</sup>, Zhimin Yin<sup>1</sup>, May Bente Brurberg<sup>2,3</sup>, Jadwiga Śliwka<sup>1</sup></b> <sup>1</sup> Plant Breeding and Acclimatization Institute - National Research Institute, Młochów, Poland. <sup>2</sup> Norwegian Institute of Bioeconomy Research, Ås, Norway. <sup>3</sup> Norwegian University of Life Sciences, Ås, Norway



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P-034	Efficacy of 3 R-gene late blight resistant potato cultivars in preventing infection by <i>Phytophthora infestans</i> in confined field trials in Indonesia	<b>Phillip Wharton<sup>1</sup>, Ineu Sulastrini<sup>2</sup>, Kusmana Kusmana<sup>2</sup>, A. Dinar Ambarwati<sup>3</sup>, Tri Joko Santoso<sup>3</sup>, David Douches<sup>4</sup>, Karen Hokanson<sup>5</sup></b> <sup>1</sup> University of Idaho, Aberdeen, USA. <sup>2</sup> Indonesian Vegetable Research Institute, Lembang, Indonesia. <sup>3</sup> CABIOGRAD, Bogor, Indonesia. <sup>4</sup> Michigan State University, East Lansing, USA. <sup>5</sup> University of Minnesota, Minneapolis, USA
P-035	Differentiation between <i>Pectobacterium</i> and <i>Dickeya</i> species based on their volatile signatures	<b>Leah Tsror, Zipora Tietel</b> ARO, Gilat Center, Israel
P-036	Sensitivity of different potato cultivars to the presence of <i>Ralstonia solanacearum</i> bacteria in in vitro cultures	<b>Włodzimierz Przewodowski<sup>1</sup>, Dorota Szarek<sup>1</sup>, Dorota Michalowska<sup>1</sup>, Grzegorz Gryn<sup>2</sup>, Katarzyna Salamonska<sup>1</sup>, Małgorzata Łabańska<sup>1</sup>, Agnieszka Przewodowska<sup>3</sup></b> <sup>1</sup> Plant Breeding and Acclimatization Institute - National Research Institute, Bonin, Poland. <sup>2</sup> Plant Breeding and Acclimatization Institute - National Research Institute, Bydgoszcz, Poland. <sup>3</sup> PMHZ, Strzekecin, Poland
P-037	Incidence and molecular characterization of potato viruses in North-Eastern States of India	<b>Mohamad Hussam Halabi, Palash Deb Nath</b> Assam Agricultural University, Jorhat, India
P-038	Chloropicrin soil fumigation in potato production used to reach on-farm environmental and economic sustainability goals	<b>Chad Hutchinson</b> The Trical Group, Pinehurst, USA
P-039	Potato psyllid and zebra chip disease risk assessment in Idaho, USA	<b>Erik Wenninger<sup>1</sup>, Jennifer Dahan<sup>2</sup>, Nora Olsen<sup>1</sup>, Alexander Karasev<sup>2</sup></b> <sup>1</sup> University of Idaho, Kimberly, USA. <sup>2</sup> University of Idaho, Moscow, USA
P-040	Implementation and impact of a warning system for potato late blight control in Latin America	<b>Ivette Acuña<sup>1</sup>, Florencia Lucca<sup>2</sup>, Cristina Tello<sup>3</sup>, Rodrigo Morales<sup>4</sup>, Arnulfo Gutiérrez<sup>4</sup>, Rodrigo Bravo<sup>1</sup>, Constanza Sepúlveda<sup>1</sup></b> <sup>1</sup> Instituto de Investigaciones Agropecuarias INIA Chile, Osorno, Chile. <sup>2</sup> Instituto Nacional de Tecnología Agropecuaria INTA Argentina, Balcarce, Argentina. <sup>3</sup> Instituto Nacional de Investigaciones Agropecuarias INIAP Ecuador, Pichincha, Ecuador. <sup>4</sup> Instituto de Innovación Agropecuaria IDIAP Panamá, Ciudad de Panamá, Panama
P-041	Using of broad-spectrum resistance genes against <i>P. infestans</i> for breeding a new potato cultivars suitable for organic agriculture – preliminary results from Ecobreed project.	<b>Jarosław Plich, Beata Tatarowska</b> Plant Breeding and Acclimatization Institute - National Research Institute, Młochów, Poland
P-042	Major aphid vectors of potato virus diseases in farmer based seed potato production areas in Kenya	<b>Joseph Machangi<sup>1,2</sup>, John Nderitu<sup>2</sup></b> <sup>1</sup> Ministry of Agriculture, Livestock and Fisheries, Nairobi, Kenya. <sup>2</sup> University of Nairobi, Department of Plant Science and Crop Protection, Nairobi, Kenya
P-043	A survey on pesticide use and application patterns among potato farmers in Bomet County, Kenya	<b>Judith Oyoo<sup>1,2</sup>, George Abong<sup>2</sup>, Michael Okoth<sup>2</sup>, Moses Nyongesa<sup>1</sup></b> <sup>1</sup> Kenya Agricultural and Livestock Research Organization (KALRO), Limuru, Kenya. <sup>2</sup> University of Nairobi, Nairobi, Kenya
P-044	Achieving rapid adoption of IPM in potato crops	<b>Paul Horne</b> IPM Technologies Pty Ltd, Melbourne, Australia
P-045	In vitro evaluating alternatives products against pathogens that affect the potato tuber	<b>Brenda Zulema Guerrero-Aguilar<sup>1</sup>, Ramiro Rocha-Rodriguez<sup>2</sup>, Juan Angel Quijano-Carranza<sup>1</sup></b> <sup>1</sup> Instituto Nacional de Investigaciones Forestales Agrícolas y Pecuarias, Celaya, Guanajuato, Mexico. <sup>2</sup> Instituto Nacional de Investigaciones Forestales Agrícolas y Pecuarias, Celaya, Guanajuato, Mexico
P-046	In vitro antagonist of <i>Trichoderma</i> against <i>Rhizoctonia solani</i> Kuhn	<b>Jesus Orlando<sup>1</sup>, Ramiro Rocha<sup>2</sup></b> <sup>1</sup> Universidad Tecnológica del Sur del Estado de Morelos, Puente de Ixtla, Mexico. <sup>2</sup> INIFAP, Celaya, Mexico
P-049	Agronomic versus economic efficiency of using high microplant densities in a small minituber production entity	<b>Ilze Dimante<sup>1,2</sup>, Zinta Gaile<sup>1</sup></b> <sup>1</sup> Latvia University of Life Sciences and Technologies, Jelgava, Latvia. <sup>2</sup> Institute of Agricultural Resources and Economics, Priekule, Latvia
P-050	Production of Irish potato certified seeds in Elgeyo Marakwet County-Kenya	<b>Grace Kipkoeh</b> Agriculture, Iten, Kenya
P-051	Community led potato seed production, multiplication and distribution in Eritrea	<b>Medhanie Mehari Arefe<sup>1</sup>, Abraham Araya Habte<sup>2</sup>, Tiberh Gayame Tekle<sup>2</sup></b> <sup>1</sup> National Agricultural Research Institute, Asmara, Eritrea. <sup>2</sup> Department of Agricultural Extension, Asmara, Eritrea

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P-052	Apical rooted cuttings of potatoes revolutionized how generation1 seed potatoes are produced in the Philippine highlands	<b>Cynthia Kiswa<sup>1</sup>, Teresita Masangcay<sup>1</sup>, Jocelyn Perez<sup>1</sup>, Jennie Balao<sup>1</sup>, Jophr Galian<sup>1</sup>, Victoria Demonteverde<sup>2</sup>, Peter Vander Zaag<sup>2,3</sup></b> <sup>1</sup> Benguet State University, La Trinidad, Benguet, Philippines. <sup>2</sup> Potato Systems Research and Training Center, Canlaon, Philippines. <sup>3</sup> Sunrise Potato, Alliston, Canada
P-053	Pioneered and efficient aeroponic potato mini-tuber production in the double cropping zone of China	<b>Wei He<sup>1</sup>, Kexiu Wang<sup>1</sup>, Mingxia Tang<sup>1</sup>, Jianjun Hu<sup>1</sup>, Peter VanderZaag<sup>2</sup></b> <sup>1</sup> Sichuan Academy of Agricultural Sciences, Chengdu, China. <sup>2</sup> Sunrise Potato, Alliston, Canada
P-054	Apical rooted cutting (ARC) technology for rapid local seed potato production	<b>Ravindranath Reddy, Anjali Das, Ranganath GJ, Madhavareddy RN</b> International Potato Centre (CIP), Bangalore, India
P-055	Tackling food security and household income through multiplication and promotion of quality seed potato in Uganda	<b>Tindimubona Stephen, Mucunguzi Levic Kagooro</b> Uganda National Seed Potato Producers Association ( UNSPPA), Kabale, Uganda
P-056	Towards a sustainable seed potato multiplication system in Ethiopia	<b>Retta Worku, Gerrit Holtland</b> SNV, Addis Ababa, Ethiopia
P-057	Cutting the Generations: Innovations in Potato transforming livelihoods of young farmers	<b>James Nyambura</b> Farm Input Promotions Africa, Meru, Kenya
P-058	Cutting the generations: Impact of decentralized Rooted Apical Cuttings nurseries in potato seed systems, Meru County Kenya	<b>Mercy Chepkwony</b> AgRevive Africa Limited, Nairobi, Kenya
P-059	Village Based Potato Advisor model on potato technology dissemination	<b>Florah Kirira</b> Farm Input Promotions Africa, Nairobi, Kenya
P-060	Biomio: Pre-selling native potato crops in the Colombian Andes	<b>Marc de Beaufort</b> BioMio, Choachi, Colombia
P-061	Women groups in Potato Value Chain Investment	<b>Stephen Ruchu, Ann Sylvia Kamau</b> Utopian Supplies Kenya Limited, Nairobi, Kenya
P-062	Potato value chain enhancement in Kenya	<b>Christopher Gasperi, Ashley Gasperi</b> FreshCrop, Nakuru, Kenya
P-063	National situation analysis of the potato sub-sector in Burundi, a partner State of East African Community (EAC)	<b>Pierre Nintije<sup>1</sup>, Fidele Gahungu<sup>2</sup></b> <sup>1</sup> CAPAD, Bujumbura, Burundi. <sup>2</sup> ONCCS, Gitega, Burundi
P-064	Development of a multi stakeholders value chain as a model of sustainability: The case of national potato multi stakeholders and investors platform Nigeria.	<b>Steve Bawa, Sarah Kwarpo</b> National Potato Multi stakeholders and investors platform Nigeria, Jos, Nigeria
P-065	The Good Potato Initiative	<b>Humphrey Mburu, Carol Valentine</b> Sereni Fries, Nairobi, Kenya
P-066	Creating efficiency in input ordering, extension and market linkages	<b>Gladys Kahindo</b> Viazi Kings Limited, Nairobi, Kenya
P-067	Challenges and opportunities for the potato sector in the Andean region in the context of COVID-19	<b>Andre Devaux<sup>1</sup>, Miguel Ordinola<sup>2</sup></b> <sup>1</sup> International Potato Center (CIP), Louvain-la-Neuve, Belgium. <sup>2</sup> International Potato Center (CIP), Lima, Peru
P-068	Private Seed Sector Development in Burundi	<b>Astere Bararyenya<sup>1</sup>, Ernest Vyizigiro<sup>1</sup>, Gilbert Buhanza<sup>2,2</sup>, Simbashizwubwoba Cyriaque<sup>2</sup></b> <sup>1</sup> Institut des Sciences Agronomiques du Burundi, Bujumbura, Burundi. <sup>2</sup> IFDC, Bujumbura, Burundi
P-069	Improving food security and economic empowerment for smallholder farmers in Africa	<b>Charles Shem<sup>1</sup>, Christine Murphy<sup>2</sup>, Solomon Kebede<sup>3</sup>, Esvenia Viola<sup>4</sup></b> <sup>1</sup> Action on Poverty, Nairobi, Kenya. <sup>2</sup> Action on Poverty, Sydney, Australia. <sup>3</sup> VITA-Ethiopia, Addis Ababa, Ethiopia. <sup>4</sup> United Purpose Mozambique, Maputo, Mozambique
P-070	Strengthen certified organic production of native potatoes and potato products through sustainable technologies that allow adaptation to climate change in the potato chain in Ecuador	<b>Lieve Van Elsen<sup>1</sup>, Glenda Azucena Ocaña Ocaña<sup>2</sup>, Luis Abelardo Montesdeoca Medina<sup>2</sup></b> <sup>1</sup> Trias, Riobamba, Ecuador. <sup>2</sup> Agropapa, Ambato, Ecuador



Code	Title	Authors
P-071	Socio-economic strengthening of the rural communities of Huancavelica through organic production and fair trade	<b>Lieve Van Elsen<sup>1</sup></b> , Maria Avila Quilca <sup>2</sup> , Silvestre Quispe Clemente <sup>2</sup> <sup>1</sup> Trias, Riobamba, Ecuador. <sup>2</sup> Agropia, Huancayo, Peru
P-072	Impact of Ethiopian Potato Improvement Program on livelihoods improvement of smallholder farmers in Gamo, Ethiopia	<b>Solomon Kassahun<sup>1</sup></b> , Tadele Kodo <sup>2</sup> <sup>1</sup> Vita, Addis Abeba, Ethiopia. <sup>2</sup> Vita, Arba Minch, Ethiopia
P-073	Partnerships for development : How a Belgian company and ngo step in to combat hunger and climate change with Ugandan smallholder potato farmers	<b>Tine Vanhee<sup>1</sup></b> , <b>Eva Verbist<sup>1</sup></b> , Brian Pimundu <sup>2</sup> , Ana Odubi Orwotho <sup>2</sup> , Filip Wallays <sup>3</sup> <sup>1</sup> Trias, Brussels, Belgium. <sup>2</sup> Zodfa - Zombo District Farmers' Association, Zombo, Uganda. <sup>3</sup> Agrieto, Wielsbeke, Belgium
P-074	The potato of the future: Opportunities and challenges in sustainable agri-food systems	<b>André Devaux<sup>1</sup></b> , Jean-Pierre Goffart <sup>2</sup> , Peter Kromann <sup>3</sup> , Jorge Andrade-Piedra <sup>4</sup> , Vivian Polar <sup>5</sup> , Guy Hareau <sup>4</sup> <sup>1</sup> International Potato Center (CIP), Louvain-la-Neuve, Belgium. <sup>2</sup> Walloon Agriculture Research Center, CRA-W, Gembloux, Belgium. <sup>3</sup> Field Crops, Wageningen Plant Research, Wageningen University & Research, Lelystad, The Netherlands, Wageningen, Netherlands. <sup>4</sup> International Potato Center (CIP), Lima, Peru. <sup>5</sup> International Potato Center (CIP), CGIAR Research Program on Roots Tubers and Bananas, Lima, Peru
P-075	Improving capacities of small holder farmers in climate-smart seed and ware potato production and value chain development Njombe, Tanzania	<b>Faraja Maguhu</b> , Ernest Ng'umbi NADO, Njombe, Tanzania, United Republic of
P-076	Looking backward to find a path forward for the sustainable flow of suitable potato varieties to Eritrean potato farmers	<b>Monica Gorman<sup>1</sup></b> , Fitsumberhan Ghebremeskel Ghebregziabihier <sup>2,1</sup> , John Burke <sup>3</sup> , Paul C. Struik <sup>4</sup> , Denis Griffin <sup>3</sup> <sup>1</sup> University College Dublin, Dublin, Ireland. <sup>2</sup> National Agricultural Research Institute, Halhale, Eritrea. <sup>3</sup> Teagasc, Carlow, Ireland. <sup>4</sup> Wageningen University and Research, Wageningen, Netherlands
P-077	Improving capacities of small holder farmers in climate-smart seed and ware potato production and value chain development Njombe, Tanzania	<b>Ernest Ng'umbi</b> , Faraja Maguhu NADO, Njombe, Tanzania, United Republic of
P-080	Participatory policy development is key to potato value chain development	<b>Wachira Kaguongo</b> , Henry Chemjor National Potato Council of Kenya, Nairobi, Kenya
P-081	Rwanda Farmers Potato Academy	<b>Joseph Gafaranga</b> Rwanda Farmers Potato Academy, PO BOX: 1462 Kigali, Rwanda
P-082	The use of volatile organic compounds to control postharvest potato diseases	<b>Alan Malek</b> , Katie Malek, Shelby Anderson, Phillip Wharton University of Idaho, Aberdeen, USA
P-083	Effect of pre-treatments and drying methods on physical and microstructural properties of potato flour	<b>Ariel Buzera<sup>1,2</sup></b> , Daniel Sila <sup>2</sup> , Irene Orina <sup>2</sup> <sup>1</sup> Université Evangélique en Afrique, Bukavu, Congo, the Democratic Republic of the. <sup>2</sup> Jomo Kenyatta University of agriculture and Technology, Nairobi, Kenya
P-084	Reduction of acrylamide contents in French fries by dipping in $\alpha$ -hydroxy acids before par-frying and glazing by dipping or spraying before freezing	<b>Erik Slinde<sup>1</sup></b> , Grete Skrede <sup>2</sup> , Hans Blom <sup>2</sup> , Anders Skrede <sup>3</sup> <sup>1</sup> Faculty of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences, 1433 Ås, Norway. <sup>2</sup> Nofima - Norwegian Institute of Food, Fisheries and Aquaculture Research, 1433 Ås, Norway. <sup>3</sup> Department of Animal and Aquacultural Sciences, Faculty of Biosciences, Norwegian University of Life Sciences, 1433 Ås, Norway
P-085	An innovative technology to reduce sprouting and ethylene-induced sweetening during postharvest potato storage - a mechanistic approach	<b>M.Carmen Alamar<sup>1</sup></b> , Roberta Tosetti <sup>1</sup> , Gemma A Chope <sup>2</sup> , Rosa Lopez-Cobollo <sup>3</sup> , Colin G.N. Turnbull <sup>3</sup> , Glenn J. B Bryan <sup>4</sup> , Andrew J. Thompson <sup>1</sup> , Leon A. Terry <sup>1</sup> <sup>1</sup> Cranfield University, Cranfield, United Kingdom. <sup>2</sup> PepsiCo International Limited, Leicester, United Kingdom. <sup>3</sup> Imperial College London, London, United Kingdom. <sup>4</sup> The James Hutton Institute, Dundee, United Kingdom
P-086	Exogenous 1,4-dimethylnaphthalene and jasmonic acid treatments impact dormancy progression in potato tubers by altering phytohormonal biosynthesis and signaling pathways	<b>Munevver Dogramaci<sup>1</sup></b> , Sagar Datir <sup>2</sup> , Fernando Finger <sup>1,3</sup> , Dipayan Sarkar <sup>2</sup> , Kalidas Shetty <sup>2</sup> , James V. Anderson <sup>1</sup> , Karen Fugate <sup>1</sup> <sup>1</sup> United States Department of Agriculture - Agricultural Research Services, Fargo, ND, USA. <sup>2</sup> North Dakota State University, Fargo, ND, USA. <sup>3</sup> Federal University of Vicosa, Brazil, Brazil

Code	Title	Authors
P-087	Individual ambient ware potato storage excels in Uganda	<b>Pieter Wauters<sup>1,2</sup>, Monica Parker<sup>3</sup>, Diego Naziri<sup>4,5</sup>, Alice Turinawe<sup>6</sup></b> <sup>1</sup> International Potato Center, Kampala, Uganda. <sup>2</sup> Centre for International Migration and Development, Eschborn, Germany. <sup>3</sup> International Potato Center, Nairobi, Kenya. <sup>4</sup> International Potato Center, Hanoi, Vietnam. <sup>5</sup> University of Greenwich, Greenwich, United Kingdom. <sup>6</sup> Makerere University, Kampala, Uganda
P-088	Cold storage, reconditioning and CO <sub>2</sub>	<b>Pia Heltoft<sup>1</sup>, Erlend Indergård<sup>2</sup></b> <sup>1</sup> NIBIO, Ås, Norway. <sup>2</sup> SINTEF Ocean AS, Trondheim, Norway
P-089	Potato production and storage response to in-field heat stress in the Pacific Northwest of the United States of America due to changing weather patterns.	<b>Jacob Blauer, Morgan Southern, Mark Pavsek, Connor Buckley</b> Washington State University, Pullman, USA
P-090	Nutritional value of potato in hot climates – alterations in the composition of health-related components	<b>Idit Ginzberg</b> Agricultural Research Organization, Volcani Institute, Rishon LeZion, Israel
P-091	Establishing the best LED radiance fluence and light quality to inhibit sprouting in table potatoes	<b>Vanessa Pedrosa<sup>1</sup>, Maryelle Silva<sup>1</sup>, Reginaldo Oliveira<sup>1</sup>, Rogério Carvalho<sup>1</sup>, Arthur Cecilio Filho<sup>1</sup>, Gustavo Teixeira<sup>2,1</sup></b> <sup>1</sup> Universidade Estadual Paulista (UNESP), Faculdade de Ciências Agrárias e Veterinárias (FCAV), Jaboticabal, Brazil. <sup>2</sup> University of Idaho (U of I), Kimberly Research and Extension Center, Kimberly, USA
P-092	Establishing a foundation breeding population and associated genomics tools to develop value-added potato varieties for sub-Saharan African agroecologies.	<b>Zeratsion Abera Desta<sup>1</sup>, Denis Griffin<sup>1</sup>, Susan Otieno<sup>2</sup>, Moses Nyongesa<sup>2</sup>, Thiago Mendes<sup>3</sup>, Dan Milbourne<sup>1</sup></b> <sup>1</sup> Teagasc, Carlow, Ireland. <sup>2</sup> Kalro, Tigon, Kenya. <sup>3</sup> CIP, Nairobi, Kenya
P-093	Advances of the Embrapa potato breeding program aiming tolerance to heat stress	<b>Caroline Castro<sup>1</sup>, Arione Pereira<sup>1</sup>, Giovani Brito<sup>2</sup>, Carlos Reisser Júnior<sup>1</sup>, Beatriz Emygdio<sup>1</sup>, Gustavo Heiden<sup>1</sup>, Leonardo Dutra<sup>1</sup>, Giovani Olegario da Silva<sup>3</sup>, Agnaldo Carvalho<sup>3</sup>, Carlos Lopes<sup>3</sup>, Guilherme da Silva Pereira<sup>4</sup>, Janni Haerter<sup>1</sup>, José Faustini de Oliveira<sup>1</sup>, Fernanda Azevedo<sup>1</sup>, Juliana Coradin<sup>1</sup>, Raquel Kneib<sup>5,1</sup>, Daiana Wolter<sup>5,1</sup>, Ruth Guzmán<sup>5,1</sup></b> <sup>1</sup> Embrapa Temperate Agriculture, Pelotas, Brazil. <sup>2</sup> Embrapa Cotton, Campina Grande, Brazil. <sup>3</sup> Embrapa Vegetables, Brasília, Brazil. <sup>4</sup> Federal University of Viçosa, Viçosa, Brazil. <sup>5</sup> Federal University of Pelotas, Pelotas, Brazil
P-094	Agri-food systems approach for the valorization of biodiversity: the case native potatoes	<b>Miguel Ordinola, Oscar Ortiz, Hugo Campos</b> International Potato Center, Lima, Peru
P-095	Resilient potato varieties selected from True Potato Seed by Filipino farmers	<b>Victoria Demonte Verde<sup>1</sup>, Peter VanderZaag<sup>2</sup>, Pham Xung Tung<sup>3</sup>, Teresita Masangcay<sup>4</sup>, Cynthia Kiswa<sup>4</sup></b> <sup>1</sup> Potato Systems Research and Training Center, Canlaon City, Philippines. <sup>2</sup> Sunrise Potato, Alliston, Canada. <sup>3</sup> Institute of Agricultural Sciences, Ho Chi Minh City, Vietnam. <sup>4</sup> Benguet State University, Benguet, Philippines
P-096	Close to the finish line - the biggest potato cryobank worldwide	<b>Rainer Vollmer, Rosalva Villagaray, Mario Castro, Jose Cardenas, Sandra Pineda, Janet Espirilla, Vania Azevedo</b> International Potato Center, Lima, Peru
P-097	Reveiling the genetic diversity of native landrace potatoes maintained in situ by farmers from Pasco and Sierra de Lima region in Peru	<b>Julian Soto<sup>1</sup>, Rene Gomez<sup>1</sup>, Noelle Anglin<sup>2</sup>, Oswaldo Chavez<sup>1</sup>, Maria Scurrah<sup>3</sup>, Raul Ccanto<sup>3</sup>, Norma Manrique<sup>1</sup>, Vania Azevedo<sup>1</sup>, Stef De Haan<sup>1</sup>, Bettina Heider<sup>1</sup></b> <sup>1</sup> CIP, Lima, Peru. <sup>2</sup> USDA, Idaho, USA. <sup>3</sup> Grupo Yanapai, Lima, Peru
P-098	Breeding program modernization by the usage of genomic tools designed to meet the demands of autopolyploid genetics	<b>Guilherme Da Silva Pereira<sup>1</sup>, Marcelo Mollinari<sup>2</sup>, Gabriel De Siqueira Gesteira<sup>2</sup>, Cristiane Taniguti<sup>3</sup>, Iara Gonçalves Dos Santos<sup>1</sup>, Ivan De Paiva Barbosa<sup>1</sup>, Carla Cristina Da Silva<sup>1</sup>, Bode Olukolu<sup>4</sup>, Hugo Campos<sup>5</sup>, Craig Yencho<sup>2</sup>, Zhao-Bang Zeng<sup>2</sup></b> <sup>1</sup> Federal University of Viçosa, Viçosa, Brazil. <sup>2</sup> North Carolina State University, Raleigh, NC, USA. <sup>3</sup> Texas A&M University, College Station, TX, USA. <sup>4</sup> University of Tennessee, Knoxville, TN, USA. <sup>5</sup> International Potato Center, Lima, Peru
P-099	Genotype environment interaction for postharvest quality parameters of yellow diploid potato ( <i>Solanum tuberosum</i> , Phureja group)	<b>Harverth Silva Herrera<sup>1</sup>, Jose Miguel Cotes Torres<sup>2</sup>, Luis Ernesto Rodríguez Molano<sup>1</sup></b> <sup>1</sup> Universidad Nacional de Colombia, Bogotá, Colombia. <sup>2</sup> Universidad Nacional de Colombia, Medellín, Colombia



Code	Title	Authors
P-100	Breeding of a new potato cultivars comprehensively resistant to virulent pathotypes of potato wart disease.	<b>Jarosław Plich, Jarosław Przetakiewicz</b> Plant Breeding and Acclimatization Institute, Młochów, Poland
P-101	Mapping resistance to the potato cyst nematode, <i>Globodera pallida</i> , in a tetraploid, russet-skinned potato population	<b>Rocio Silvestre<sup>1</sup>, Louise-Marie Dandurand<sup>1</sup>, Richard Novy<sup>2</sup>, Jonathan Whitworth<sup>2</sup>, Joseph Kuhl<sup>1</sup></b> <sup>1</sup> University of Idaho, Moscow, USA. <sup>2</sup> USDA-ARS, Aberdeen, USA
P-102	Examination of changes in gene expression in stored potato tubers and response to treatment with 1,4-dimethylnaphthalene	<b>Michael Campbell<sup>1</sup>, Emily Dobry<sup>2</sup></b> <sup>1</sup> Penn State Erie, The Behrend College, Erie, USA. <sup>2</sup> Penn State University, University Park, USA
P-103	PotatoMASH - a low cost, genome-scanning marker system for use in potato breeding	<b>Maria de la O Leyva Perez<sup>1</sup>, Stephen Byrne<sup>1</sup>, Fergus Meade<sup>1</sup>, Denis Griffin<sup>1</sup>, Tom Ruttink<sup>2</sup>, Corentin Clot<sup>3</sup>, Lea Vexler<sup>1</sup>, Jie Kang<sup>1,4</sup>, Dan Milbourne<sup>1</sup></b> <sup>1</sup> Teagasc. Crop Science Department, Carlow, Ireland. <sup>2</sup> Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Melle, Belgium. <sup>3</sup> Wageningen University and Research. Plant Breeding Department, Wageningen, Netherlands. <sup>4</sup> University of Otago. Department of Mathematics and Statistics, Dunedin, New Zealand
P-105	Genome-wide association and genomic prediction for late blight and PCN resistance in potato	<b>Salej Sood, Vinay Bhardwaj, Sanjeev Sharma, Aarti Bairwa, Sundaresha S., Ashwani Kumar, Baljeet Singh, Ashwani Sharma, Dalamu Dalamu, Vinod Kumar, NK Pandey</b> Central Potato Research Institute, Shimla, India
P-106	Understanding the components of potato genotype adaptation: Dormancy and sprouting characteristics under different altitudes and seasons in north-west Kenya	<b>Thomas K. Kwambai<sup>1,2</sup>, Denis Griffin<sup>3</sup>, Moses Nyongesa<sup>4</sup>, Stephen Byrne<sup>3</sup>, Paul C. Struik<sup>5</sup></b> <sup>1</sup> Kenya Agricultural and Livestock Research Organization - Food Crops Research Institute, Kitale, Kenya. <sup>2</sup> Wageningen University and Research, Centre for Crop Systems Analysis, Centre for Crop Systems Analysis, Wageningen, Netherlands. <sup>3</sup> Teagasc Crops Research Centre, Oak Park, Carlow, Ireland. <sup>4</sup> Kenya Agricultural and Livestock Research Organization - Tigonu Potato Research Centre, Tigonu, Kenya. <sup>5</sup> Wageningen University and Research, Centre for Crop Systems Analysis, Wageningen, Netherlands
P-107	Unica or Yusi Maap: a unique potato variety with agro-ecological resilience across the continents	<b>SK Luthra<sup>1</sup>, VK Gupta<sup>1</sup>, S Rawal<sup>1</sup>, Bandana Bandana<sup>1</sup>, Vinod Kumar<sup>2</sup>, Salej Sood<sup>2</sup>, NK Pandey<sup>2</sup>, Vinay Bhardwaj<sup>2</sup>, Abhishek Rathore<sup>3</sup>, MS Kadian<sup>4</sup>, S Baruah<sup>4</sup>, Sam Mohanty<sup>5</sup></b> <sup>1</sup> ICAR-CPRI, Regional Station, Modipuram, India. <sup>2</sup> ICAR-Central Potato Research Institute, Shimla, India. <sup>3</sup> International Crops Research Institute for the Semi-arid Tropics, Hyderabad, India. <sup>4</sup> International Potato Centre, Regional Office, New Delhi, India. <sup>5</sup> International Potato Centre, Regional Office, Manila, Philippines
P-108	An agile potato breeding strategy for tropical and subtropical environments	<b>Pham Xuan Tung<sup>1</sup>, Peter Vander Zaag<sup>2</sup></b> <sup>1</sup> Institute of Agricultural Sciences for Southern Viet Nam, Ho Chi Minh City, Vietnam. <sup>2</sup> Sunrise Potato, Alliston, Ontario, Canada
P-110	Quantitative trait loci for resistance to potato dry rot caused by <i>Fusarium sambucinum</i>	<b>Sylwester Sobkowiak, Marta Janiszewska, Emil Stefańczyk, Iwona Wasilewicz-Flis, Jadwiga Śliwka</b> Plant Breeding and Acclimatization Institute-National Research Institute, Młochów, Poland
P-111	Application of the PotatoMASH genotyping platform to a large panel of diploid potato breeding lines to drive progress towards Fixation-Restitution Breeding.	<b>Lea Vexler<sup>1,2</sup>, Maria de la O Leyva Perez<sup>1</sup>, Agnieszka Konkolewska<sup>1</sup>, Tom Ruttink<sup>3</sup>, Stephen Byrne<sup>1</sup>, Denis Griffin<sup>1</sup>, The Fixation-Restitution Breeding Consortium Consortium<sup>1</sup>, Herman van Eck<sup>2</sup>, Dan Milbourne<sup>1</sup></b> <sup>1</sup> Teagasc, Crops Research, Carlow, Ireland. <sup>2</sup> Wageningen University and Research, Plant Breeding, Wageningen, Netherlands. <sup>3</sup> Flanders Research Institute for Agriculture, Melle, Belgium
P-112	Understanding the genetics of common scab resistance in potato crop	<b>Fatima Latif Azam<sup>1,2</sup>, Denis Griffin<sup>1</sup>, Dan Milbourne<sup>1</sup>, Richard Visser<sup>2</sup>, Herman van Eck<sup>2</sup></b> <sup>1</sup> Teagasc Research Centre, Carlow, Ireland. <sup>2</sup> Wageningen University and Research, Wageningen, Netherlands



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# Technical Tours





## Technical Tours

All technical tours take place on Thursday, 2nd June. All tours will depart from the Anglesea Road entrance at the back of the RDS.

Please note the departure time of your tour below. Tours will leave promptly at the time below. All tours will return to the Bloom Festival, Ireland's largest annual gardening show, hosted by Bord Bia, the Irish Food Board in the Phoenix Park.

Return transfers from Bloom to the RDS are available at 18:00.

For those who have purchased tickets for the optional Bord Bia Garden Supper, transfers will be available at 21:00.

Technical Tour Name	Departure Time
Northern Ireland Tour to Wilson's Country & Belfast Titanic	07:00
Teagasc, Johnstown Castle & Irish Famine Museum	07:30
O'Shea's Farm & Kilkenny Castle	07:30
Potato Field Event with Slane Castle & Distillery	07:45
Potato Field Event with Malahide Castle & North Dublin Coastline	07:45
Potato Field Event with Newbridge House and Farm & North Dublin Coastline Tour	07:45
Meade Potato Farm with Slane Castle & Distillery Tour	07:45
Meade Potato Farm & Trim Castle Tour	07:45
Sam Dennigan & Co with Teeling Distillery Tour	08:00

## Leisure Excursions

Excursion Name	Departure Location	Departure Time
<b>Sunday, 29th May</b> Cliffs of Moher €95	Merrion Road Entrance to RDS Bus Stop 485	07:30
<b>Monday, 30th May</b> Dublin City Walking Tour - €28	Registration Desk Exhibition Hall	10:00
<b>Tuesday, 31st May</b> Dublin Coach Tour including Trinity College, Book of Kells & EPIC Museum - €65	Registration Desk Exhibition Hall	08:30
<b>Wednesday, 1st June</b> Glendalough and Powerscourt Gardens - €65	Registration Desk Exhibition Hall	08:30
<b>Wednesday, 1st June</b> Dublin Walking Tour - €28	Registration Desk Exhibition Hall	10:00

# Social Events





## Social Events



### Welcome Reception

<b>Venue:</b>	Exhibition Hall - RDS
<b>Date:</b>	Monday, 30th May
<b>Dress Code:</b>	Smart/Casual
<b>Time:</b>	18:15 - 19:30

The WPC 2022 Welcome Reception will take place in Exhibition Hall in the RDS. Delegates will enjoy refreshments while networking with their colleagues, old and new.

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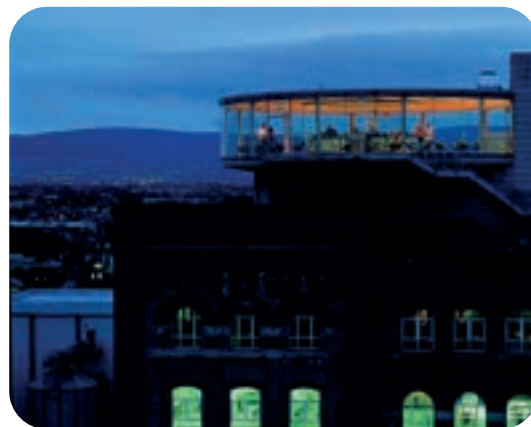


### Congress BBQ

<b>Venue:</b>	Clayton Hotel, Ballsbridge
<b>Date:</b>	Tuesday, 31st May
<b>Dress Code:</b>	Casual
<b>Time:</b>	19:00
<b>Ticket Price:</b>	€38

BBQ will take place in the Clayton Hotel, Ballsbridge just minutes from the RDS. Guests will enjoy a casual evening with food and drinks.

## Social Events



### Congress Social Evening

Sponsored by:



<b>Venue:</b>	The Guinness Storehouse
<b>Date:</b>	Wednesday, 1st June
<b>Dress Code:</b>	Smart/Casual
<b>Time:</b>	Bus transfers depart from the RDS and official congress hotels at 19:15
<b>Ticket Price:</b>	Included in registration fee

**This event is strictly over 18's only.**

## The WPC 2022 congress social evening will take place in the famous venue of the Guinness Storehouse.

The Guinness Storehouse sits in the middle of Dublin City in the legendary St. James Gate Brewery, home of Guinness since 1759. In days gone by, it was a fermentation plant but today it has been transformed into Ireland's number one international tourist attraction and a world class prestigious event destination.

With seven stories intertwining up through the centre of the building, you will be greeted with a sense of past, present and future of the Guinness Industry. Take the opportunity to network alongside your colleagues and enjoy the night's festivities by eating the delicious food on offer and raising a pint of the "Black Stuff" in honour of this iconic venue.

Ticket price includes transfers from the CCD, access to the Guinness Storehouse experience museum, dinner, drinks, traditional Irish entertainment and the opportunity to learn how to pour the perfect pint of Guinness.

A limited number of tickets are still available to purchase from the onsite registration desk.



## Social Events



### Bloom Garden Supper Party

(as part of the Technical Tours)

<b>Venue:</b>	Bloom Festival, The Phoenix Park
<b>Date:</b>	Thursday, 2nd June
<b>Dress Code:</b>	Casual
<b>Time:</b>	Post the Technical Tours
<b>Ticket price:</b>	€35



Guests participating in the WPC 2022 Technical Tours have the option to attend an evening Garden Supper organised by Bord Bia at the Bloom Festival. Entry to the Bloom Festival is included in each technical tour but tickets to the Garden Supper were purchased separately.

**Bloom was launched by Bord Bia in 2007 and over the intervening years it has become Ireland's largest and most successful family event with 115,000 visitors in attendance each year.**

Bloom is now recognised as one of Europe's most prestigious gardening and horticultural shows. It has also become an important sales and promotional platform for Irish food and beverages. Bloom takes place in Dublin's Phoenix Park at the centre of our capital city and it is held annually over five days in early June. The President of Ireland, Michael D. Higgins is Bloom's patron and he officially opens the show each year. Bloom is organised by a dedicated team who collaborate with Ireland's top garden designers, plant nurseries and landscape contractors to ensure that Bloom has a high impact horticultural centre piece that is surrounded by a wide range of family-friendly features, musical entertainment, great food offerings, sales areas, teaching and demonstration spaces that combine to make Bloom a great experience for visitors of all ages. The Bloom show garden designers are achieving the highest international standards possible with over 11 gold medals awarded in 2019.

On arrival delegates will be directed to the Food Village to experience fresh produce and potato features and the company food stalls. You will also get an opportunity in your own time to tour the show and experience the full Bloom atmosphere.

## Social Events



### WPC Golf Tournament

<b>Venue:</b>	Portmarnock Hotel & Golf Club
<b>Date:</b>	Monday, 30th May
<b>Transfers:</b>	Bus will depart from the Anglesea Rd entrance at the back of the RDS
<b>Time:</b>	06:00

Enthusiastic WPC golfers are invited to join us at the WPC 2022 Congress golf tournament taking place in the stunning location of the links Portmarnock Golf Club.

### 2km Fun Run

<b>Venue:</b>	Herbert Park – entrance opposite the Herbert Park Hotel
<b>Date:</b>	Tuesday, 31st May
<b>Time:</b>	06:30

### Become an ambassador for the healthy potato by participating in the Congress 2K Fun Run!

Scientific work in the U.S. and around the world highlights the connection between potato nutrition and improved athletic performance – what better way to put this message across on a global platform? However, the clue is in the title – the main objective is to simply have fun in one of Dublin's oldest parks and work up a good appetite for a hearty Irish breakfast!

The race will start at the Herbert Park entrance in front of the Herbert Park Hotel right on the Congress doorstep. The surface is mainly gravel and our runners will be right next to open green areas. Don't be surprised if you see a duck or two in the pond. The route will be 2km.

We hope you do join the fun and carry home the message that potatoes provide the carbohydrates and nutrients needed for an active and healthy lifestyle.



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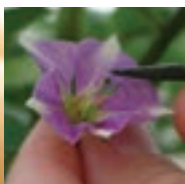
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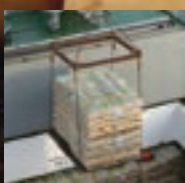
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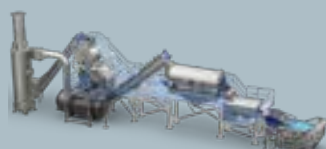
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34		<b>Organisation</b> Agroscout <b>Contact</b> Lena Pivnik <b>Email</b> Lena@agro-scout.com <b>Tel</b> +972 0547768994 <b>Web</b> agro-scout.com
33		<b>Organisation</b> Alltech <b>Email</b> cropscienceeur@alltech.com <b>Web</b> alltech.com/cropscience
60		<b>Organisation</b> Alzchem Group AG <b>Contact</b> Jose Martinez <b>Email</b> Jose.Martinez@alzchem.com <b>Tel</b> +49 8621 86 2897 <b>Web</b> alzchem.com
45		<b>Organisation</b> AVR <b>Contact</b> Maarten Desmet <b>Email</b> maartendesmet@avr.be <b>Tel</b> +32 499 57 78 24 <b>Web</b> avr.be
8,9 & 10		<b>Organisation</b> Belgian Potato Sector <b>Contact</b> Katrien De Nul <b>Email</b> katrien.denul@vlam.be <b>Tel</b> +32 2 552 80 71 <b>Web</b> belgianpotatoes.com
31		<b>Organisation</b> Bord Bia - Irish Food Board <b>Contact</b> Mike Neary, Lorcan Bourke <b>Email</b> Mike.Neary@BordBia.ie, Lorcan.Bourke@BordBia.ie <b>Tel</b> +(MN) +353 86 8153443, (LB) +353 86 8153445 <b>Web</b> Bordbia.ie
4		<b>Organisation</b> CETS LLC <b>Contact</b> Janina Petrick <b>Email</b> j_petrick@gbms.us <b>Tel</b> +1 262 2461799 / 1 262 3914705 <b>Web</b> cetstech.com
52		<b>Organisation</b> Corteva Agriscience <b>Email</b> cortevauk@corteva.com <b>Tel</b> +44 1462 457272 <b>Web</b> corteva.co.uk
47		<b>Organisation</b> Country Crest <b>Contact</b> Breda Leonard <b>Email</b> info@countrycrest.ie <b>Tel</b> +353 1 8437061 <b>Web</b> countrycrest.ie



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43		<b>Organisation</b> CULLEN ALLEN & NORIKA <b>Contact</b> Eddie Craig <b>Email</b> info@cullenallen.co.uk <b>Tel</b> +44 7860 443340 <b>Web</b> cullenallen.co.uk
38	 <b>An Roinn Talmhaíochta, Bia agus Mara</b> Department of Agriculture, Food and the Marine	<b>Organisation</b> Department of Agriculture, Food and the Marine <b>Contact</b> Agriculture House, Kildare Street, Dublin 2 <b>Email</b> info@agriculture.gov.ie <b>Tel</b> +353 1 6072000 <b>Web</b> gov.ie/agriculture
55		<b>Organisation</b> Dewulf <b>Email</b> info@dewulfgroup.com <b>Tel</b> +32 51 20 58 71 <b>Web</b> dewulfgroup.com
46		<b>Organisation</b> Dole Ireland <b>Contact</b> Vinent Dolan <b>Email</b> vdolan@totalproduce.com <b>Tel</b> +353 86 8204936 <b>Web</b> doleplc.com
19		<b>Organisation</b> DormFresh, Ltd <b>Contact</b> Bernhard Frings <b>Email</b> info@dormfresh.co.uk <b>Tel</b> +44 1738 633 859 <b>Web</b> dormfresh.co.uk
40		<b>Organisation</b> EM AUTOMATION LTD <b>Contact</b> Eugene McKeown <b>Email</b> eugene@emautomationltd.com <b>Tel</b> +44 797 197 2950 <b>Web</b> emautomationltd.com
5		<b>Organisation</b> Embassy of Peru <b>Contact</b> Alberto Gonzales <b>Email</b> agonzales@peruembassy.ie <b>Tel</b> +353 83 3073137 <b>Web</b> gob.pe/embajada-del-peru-en-irlanda
48		<b>Organisation</b> EUROPLANT Pflanzenzucht GmbH <b>Contact</b> Joerg Renatus <b>Email</b> info@europlant.biz <b>Tel</b> +49 4131 748005 <b>Web</b> europlant.biz
58 & 59	 GLENs of ANTRIM POTATOES	<b>Organisation</b> Glens of Antrim Potatoes Ltd <b>Contact</b> Michael McKillop <b>Email</b> Michael.mckillop@goapotatoes.co.uk <b>Tel</b> +44 780 3620580 <b>Web</b> goapotatoes.co.uk
51		<b>Organisation</b> GRIMME <b>Contact</b> Frank Nordmann <b>Email</b> f.nordmann@grimme.de <b>Tel</b> +49 160 5386781 <b>Web</b> grimme.com

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39		<b>Organisation</b> Haith <b>Contact</b> Duane Hill <b>Email</b> sales@haith.co.uk <b>Tel</b> +44 1302 831911 <b>Web</b> haith.co.uk
27		<b>Organisation</b> HarvestEye <b>Contact</b> Kern Baker <b>Email</b> kbaker@b-hiveinnovations.co.uk <b>Tel</b> +44 7375 249384 <b>Web</b> harvesteye.com
11 & 12		<b>Organisation</b> Industrial Ventilation, Inc. <b>Contact</b> Chase Kidd <b>Email</b> ChaseK@ivi.us.com <b>Tel</b> +1 208 960 5352 <b>Web</b> ivi-air.com
15		<b>Organisation</b> International Fertilizer Development Centre (IFDC) <b>Contact</b> Judith Chabari <b>Email</b> jchabari@ifdc.org <b>Tel</b> +254 (20) 514 3609 <b>Web</b> ifdc.org
25		<b>Organisation</b> IPM Potato Group Limited <b>Email</b> info@ipmpotato.com <b>Tel</b> +353 1 213 5410 <b>Web</b> ipmpotato.com
7		<b>Organisation</b> J&M Kehoe <b>Contact</b> Michael Kehoe <b>Email</b> michael@jmkehoe.com <b>Tel</b> +353 87 2563797 <b>Web</b> jmkehoepackaging.com
29		<b>Organisation</b> JOHN DEERE <b>Contact</b> Chris Wiltshire <b>Email</b> wiltshirechris@johndeere.com <b>Tel</b> +44 7715 164383 <b>Web</b> deere.co.uk
30		<b>Organisation</b> Juno (Plant Protection) Ltd <b>Contact</b> Nick Tapp <b>Email</b> nick@junopp.com <b>Tel</b> +44 7775 785748 <b>Web</b> junopp.com
14		<b>Organisation</b> K & K Produce <b>Contact</b> Michael Kennedy <b>Email</b> michael@kkproduce.ie <b>Tel</b> +353 86 8563247 <b>Web</b> kkproduce.ie
17		<b>Organisation</b> Keogh's Farm <b>Contact</b> Customer Service <b>Email</b> info@keoghs.ie <b>Tel</b> +353 1 8433175 <b>Web</b> keoghs.ie



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53	 <b>KEVIN WOODS MACHINERY</b>	<b>Organisation</b> Kevin Woods Machinery <b>Contact</b> Kevin Woods <b>Email</b> kevin@kevinwoodsmachinery.ie <b>Tel</b> +353 86 859 5532 <b>Web</b> kevinwoodsmachinery.ie
20		<b>Organisation</b> KLIM'TOP CONTROLS <b>Contact</b> Eric Colpaert <b>Email</b> info@klimtop.eu <b>Tel</b> +33 328 500981 <b>Web</b> klimtop.eu
56	 <b>Manter®</b> WEIGHING & PACKAGING EQUIPMENT	<b>Organisation</b> Manter International B.V. <b>Contact</b> Michiel Eilander <b>Email</b> sales@manter.com <b>Tel</b> +31 591 626300 <b>Web</b> manter.com
21		<b>Organisation</b> Meade Farm Group <b>Contact</b> Philip Meade Jr. <b>Email</b> info@meadepotato.com <b>Tel</b> +353 46 905 3198 <b>Web</b> meadefarm.ie
3	<b>medius®</b> 	<b>Organisation</b> Medius Ag, LLC <b>Contact</b> Ryan Krabill <b>Email</b> ryan@mediusag.com <b>Tel</b> +1 202 365 1458 <b>Web</b> medius.re
62 & 63		<b>Organisation</b> Nuvia Technologies Inc <b>Contact</b> Roger McLelland <b>Email</b> roger.mcllland@nuviatec.com <b>Tel</b> +1 647 688 2062 <b>Web</b> nuviatec.com
49		<b>Organisation</b> O'Shea Farms <b>Contact</b> James & T.J. O'Shea <b>Email</b> marie@osheafarms.ie <b>Tel</b> +353 51 437030 <b>Web</b> osheafarms.ie
26		<b>Organisation</b> Polish Potato Federation <b>Contact</b> Office <b>Email</b> biuro@federacjaziemniaka.pl <b>Tel</b> +48 570 464 337 <b>Web</b> federacjaziemniaka.pl
61		<b>Organisation</b> Potatoes Canada <b>Contact</b> Mary Kay Sonier <b>Email</b> mary@peipotato.org <b>Tel</b> +1 902 892 6551 <b>Web</b> potatoescanada.com
6		<b>Organisation</b> PotatoWorld magazine <b>Contact</b> Jeroen Krabbendam <b>Email</b> info@potatoworld.eu <b>Tel</b> +31 703 589331 <b>Web</b> potatoworld.eu

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57		<b>Organisation</b> Restrain <b>Contact</b> Dirk Garos <b>Email</b> Dirk.garos@restrain.eu.com <b>Tel</b> +31 6 53 86 92 21 <b>Web</b> restrain.eu.com
50		<b>Organisation</b> Sam Dennigan & Co U.C. <b>Contact</b> Joe Dennigan / Valerie Monaghan <b>Email</b> joe@samdennigan.ie, Vmonaghan@samdennigan.ie <b>Tel</b> +353 1 8010500 / 8010535 <b>Web</b> samdennigan.ie
41		<b>Organisation</b> STAFFORD IRISH SPIRITS CO <b>Email</b> sales@staffordirishspirits.com <b>Tel</b> +353 53 9239260 <b>Web</b> jackfordspirits.com
36	 <b>Tayto Snacks</b>	<b>Organisation</b> Tayto Snacks <b>Contact</b> Alina Ui Chaollai <b>Email</b> alina.uichaollai@taytosnacks.ie <b>Tel</b> +353 1 8350611 <b>Web</b> taytosnacks.ie
32	 <b>teagasc</b> AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY	<b>Organisation</b> Teagasc <b>Contact</b> Michael Hennessy <b>Email</b> Michael.hennessy@teagasc.ie <b>Tel</b> +353 87 4158385 <b>Web</b> teagasc.ie
64	 <b>TECHMARK, INC</b> Technology from the ground up	<b>Organisation</b> Techmark, Inc. <b>Contact</b> Patrick J Morris <b>Email</b> pmorris@techmark-inc.com <b>Tel</b> +1 517 322 0250 <b>Web</b> techmark-inc.com
18	 <b>TOLSMA GRISNICH</b>	<b>Organisation</b> Tolsma-Grisnich <b>Contact</b> Femmy Meisner <b>Email</b> femmyeisner@tolsmagrisnich.com <b>Tel</b> +31 527 636465 <b>Web</b> tolsmagrisnich.com
37	 <b>TOMRA</b>	<b>Organisation</b> TOMRA Food <b>Contact</b> TOMRA Food <b>Email</b> food@tomra.com <b>Tel</b> +32 16 396 396 <b>Web</b> tomra.com/food
54	 <b>TONG</b>	<b>Organisation</b> TONG Engineering <b>Contact</b> Charlie Rich <b>Email</b> sales@tongengineering.com <b>Tel</b> +44 01790 752771 <b>Web</b> tongengineering.com
16	 <b>TMH</b> TOTAL MATERIALS HANDLING	<b>Organisation</b> Total Materials Handling Ltd. <b>Contact</b> John Gorman <b>Email</b> sales@tmh.ie <b>Tel</b> +353 87 2542106 <b>Web</b> tmh.ie



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42	 www.Strikefumigants.com	<b>Organisation</b> TriCal Group <b>Contact</b> Dr. Chad Hutchinson <b>Email</b> info@strikefumigants.com <b>Tel</b> +1 888 359 2483 <b>Web</b> strikefumigants.com
23	 УКРАЇНСКА АСОЦІАЦІЯ ВИРОБНИКІВ КАРТОПЛІ	<b>Organisation</b> Ukrainian Association of Potato Producers <b>Contact</b> Denys Stacenko <b>Email</b> kiev.uavk@gmail.com <b>Tel</b> +38 0986217897 <b>Web</b> potatoclub.com.ua
22		<b>Organisation</b> UPL <b>Contact</b> Roy Robinson <b>Email</b> info.uk@upl-ltd.com <b>Tel</b> +44 1925 819999 <b>Web</b> upl-ltd.com
13	 Refreshing AgroFood	<b>Organisation</b> VAM WaterTech <b>Contact</b> Eduard van Antwerpen <b>Email</b> info@vam-watertech.com <b>Tel</b> +31 113655880 <b>Web</b> vam-watertech.com
24	 POTATOES & MORE	<b>Organisation</b> Verhagen Holland <b>Contact</b> Kristian Verhagen <b>Email</b> kristian@verhagenholland.nl <b>Tel</b> +31 167524155 <b>Web</b> verhagenholland.nl
1 & 2	 For Climate Smart Communities	<b>Organisation</b> VITA <b>Contact</b> Ciara Feehely <b>Email</b> ciara.feehely@vita.ie <b>Tel</b> +353 87 6177433 <b>Web</b> vita.ie
28	 THE BEST FROM EVERY HARVEST wymasolutions.com	<b>Organisation</b> Wyma UK <b>Contact</b> Josh Stilwell <b>Email</b> josh.s@wymasolutions.com <b>Tel</b> +44 7919 340214 <b>Web</b> wymasolutions.com

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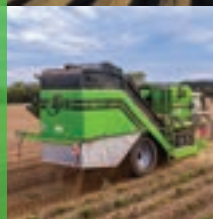
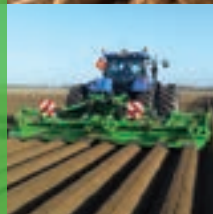
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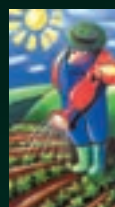


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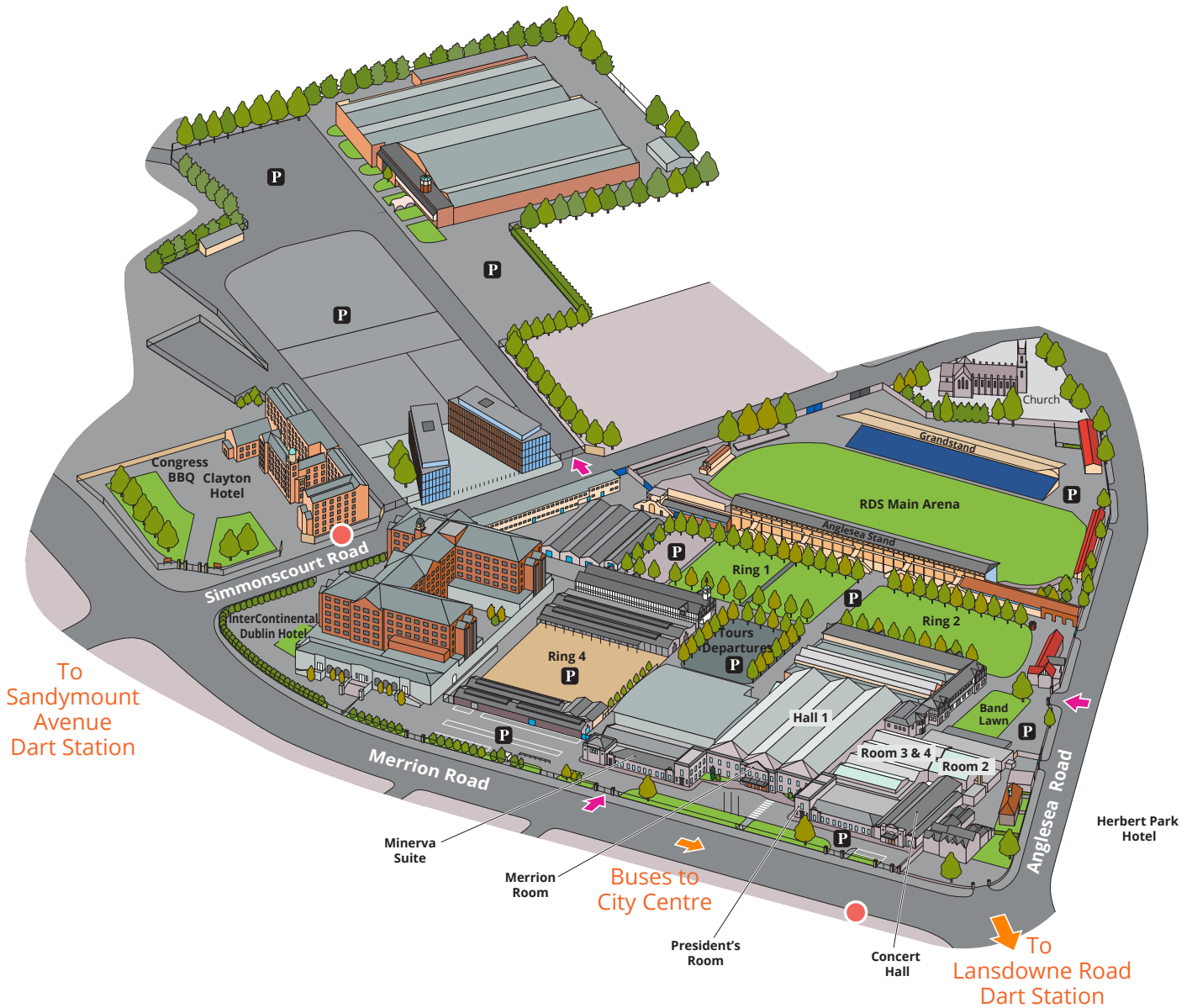


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## Site Map of the RDS



**Concert Hall** - Plenary Sessions

**Hall 1** - Exhibition and Poster Sessions

**Hall 2** - Concurrent & Focus Sessions

**Hall 3** - Focus Sessions


**Hall 4** - Focus Sessions

## Notes

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