

# IHC 2022

31<sup>ST</sup> INTERNATIONAL HORTICULTURAL CONGRESS

*HORTICULTURE FOR A WORLD IN TRANSITION*

**14-20 AUGUST 2022**  
**CONGRESS CENTRE**  
**ANGERS-FRANCE**

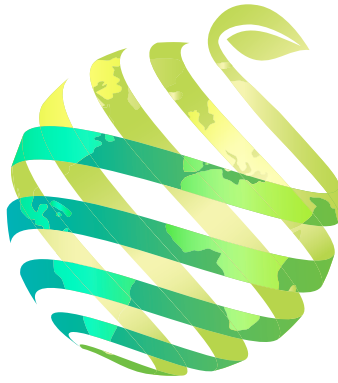
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**#IHC2022**  
**[www.ihc2022.org](http://www.ihc2022.org)**

Under the auspices :  **ISHS**  
International Society for Horticultural Science





# IHC 2022

## ANGERS – FRANCE

### UNDER THE AUSPICES



### CONVENING INSTITUTIONS



## Special thanks to our partners, sponsors and exhibitors

### UNDER THE HIGH PATRONAGE OF



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# THE LARGEST GLOBAL EVENT DEDICATED TO SPECIALISED RESEARCH



**1500**  
SPEAKERS



**2 400**  
PAPERS  
SUBMITTED



**842**  
ORAL  
PRESENTATIONS



**1 124**  
E-POSTERS



**18**  
WORKSHOPS



**4**  
EVENING  
EVENTS



**14 / 800 PERS.**  
TECHNICAL TOURS



**25**  
SYMPOSIA



**4**  
PLENARY SESSIONS  
8 INTERNATIONAL  
KEYNOTE SPEAKERS

**2 000 M<sup>2</sup>**  
EXHIBIT SPACE

**40**  
EXHIBITORS

**17**  
PARTNERS

**21**  
SPONSORS

# ATTENDEES

## ORIGIN OF ATTENDEES

EUROPE  
**59%**  
> 1000



ASIA  
**17%**  
> 300



AMÉRICAS  
**14%**  
> 300



AFRICAS  
**7%**  
> 100



ASIA-PACIFIC  
**3%**  
> 50



## TOP 10 COUNTRIES REPRESENTED (in number of participants)



FRANCE  
> 500



USA  
> 200



ITALY  
> 100



GERMANY  
> 100



JAPAN  
> 100



BELGIUM  
> 80



SOUTH KOREA  
> 80



SPAIN  
> 50



SOUTH AFRICA  
> 50



NETHERLANDS  
> 50

# 2 300 ATTENDEES

13 %

PROFESSIONALS

72 %

RESEARCH

15 %

EDUCATION

FROM  
**90**  
COUNTRIES

90% IN PERSON - 10% ON LINE



# HORTICULTURE FOR A WORLD IN TRANSITION : FOUR MAJOR CHALLENGES FOR THIS 31st EDITION



## A WORD FROM THE PRESIDENT OF THE IHC 2022 :

### FRANCE PROUD TO BE HOST COUNTRY

France is hosting the 31st edition of the International Congress Horticulture (IHC), which I have the honour of chairing. After Lisbon in 2010, Brisbane in 2014 and Istanbul in 2018, it is the city of Angers that has been chosen to host the IHC 2022. We are very proud of this! This long-awaited congress brings together researchers, teacher-researchers, engineers, producers, students and companies from over a hundred countries, all united to promote scientific research and R&D in horticulture.

### THE CHALLENGES

The health crisis and the war in Ukraine, whose various impacts are still being felt, have highlighted several issues related to the place of agriculture in our societies. Although they echo questions that have long been identified by scientists, researchers and institutes, we will highlight during this congress that horticulture is capable of responding to the major challenges of today and tomorrow: food sovereignty, nutrition and human health, climate change, agro-ecology, competitiveness, etc. Our slogan "Horticulture for a world in transition" rings true.

### ANGERS, CAPITAL OF PLANTS

Angers was not chosen by chance to organise this congress. It is the largest green city in France and is at the heart of a region of character and a land of research and experimentation. The Loire Valley is an area that lives on horticulture. The development of the city and the region is focused on this sector. Angers and its various scientific, economic, cultural and tourist players are enthusiastically preparing to welcome the delegates and to make this event an exceptional and memorable one. We hope that you will have many exchanges during our congress, so that you can cross fields of knowledge and experience on these exciting issues. For those who will not be able to travel, the hybrid format is proposed to facilitate the participation of the greatest number.

***"The International Horticultural Congress (IHC) is the Olympic Games of horticulture. Every four years, 2,500 scientists from all over the world come together for a week."***

**Dr. François Laurens**

PRESIDENT OF THE IHC 2022 CONGRESS



## A WORD FROM THE PRESIDENT OF ISHS 2022 :

Every four years, the international society for horticultural science (ISHS) convenes the major international horticultural congress (IHC) where the latest knowledge and leading knowledge technologies within horticultural science worldwide are presented.

IHC2022 will provide an excellent platform for scientists, technicians, students, consultants, engineers, extension agents, growers, industry, trade and consumer organizations, policy makers and professionals having a direct or indirect interest in horticulture. This event will bring together more than 2000 people from all over the world, to communicate their science, technology and management expertise, and hear the latest advances directly from the international experts in horticultural science and the wider plant science community. You will get the chance to meet and discuss directly with your colleagues and enlarge your network. Their research and discussion will be fundamental to identifying, informing and implementing international and national policies and protocols in the planning, conservation and sustainable uses of horticulture.

IHC2022 has a rich and innovative scientific program in different formats. You will surely get the opportunity for building beneficial relations within the horticultural ecosystem and industry.

**Pr. Dr Yuksel Tuzel**  
ISHS President

### About ISHS :



**ISHS**  
International Society for Horticultural Science

Founded in April 1959 as a global network of horticulturists and horticultural scientists seeking international co-operation, today the International Society for Horticultural Science (ISHS), is a truly global network comprising over 60,000 individuals, universities, governments, institutions, libraries and commercial companies. ISHS has become the largest and most important framework for horticultural science. ISHS membership, offering a unique mix of divisions & commissions, working groups, symposia, publications, mailing lists, online services, ... allows you to develop information networks with colleagues who have similar interests and concerns. Discover job opportunities fast, learn of new techniques and breakthroughs first, and increase your access to scientists who may have solutions to the questions you need to answer today. The ISHS provides its members with a platform allowing them to share knowledge on an international scale.



## A WORD FROM THE GUEST AT THE OPENING CEREMONY

AGRICULTURE AND MOREOVER THE HORTICULTURE SECTOR HAVE TO COPE WITH FOUR CHALLENGES:

- > adaptation and fight against climate change,
- > agro-ecological evolution towards low-carbon agriculture,
- > food sustainability
- > competitiveness attractiveness of jobs in the farming sector.

In this branch, it is through on the one hand active involvement in progress and future technics and on the other hand the massive dissemination of good practices, that agriculture will meet the challenges it faces. Thus, research and innovation are key and essential factors of success: "Wanted"! Agriculture is looking for innovative solutions which we strongly need "to do better", by controlling impacts and by taking into account the new climate paradigms, within the deadlines set by the various legislations in force around the world!

**Christiane Lambert**

PRESIDENT OF COPA\*, PRESIDENT OF FNSEA

\*COPA: Committee of Professional Agricultural Organisations, it represents more than 22 million European farmers and their families in a combined effort with its members to promote the best interests of the agricultural sector to the EU institutions and other stakeholders.



Food and Agriculture  
Organization of the  
United Nations

The Food and Agriculture Organization (FAO) is a specialized agency of the United Nations that leads international efforts to defeat hunger. FAO's goal is to achieve food security for all and make sure that people have regular access to enough high-quality food to lead active, healthy lives. With 195 members - 194 countries and the European Union, FAO works in over 130 countries worldwide.

The DDG, Beth Bechdol, left a message to all attendees.

[https://www.youtube.com/watch?v=IWXS2v\\_bKvg](https://www.youtube.com/watch?v=IWXS2v_bKvg)

***What if horticulture could play a decisive role in solving these problems? The programme of the IHC 2022 congress has been built around 4 major issues:***



**COMPETITIVENESS AND SKILLS  
FOR HORTICULTURAL VALUE CHAINS**



**FOOD, HUMAN HEALTH  
AND WELL-BEING OF CITIZENS**



**SUSTAINABILITY OF PRODUCTION SYSTEMS  
AGROECOLOGY**



**ADAPTATION TO CLIMATE CHANGES  
AND EFFECTS MITIGATION**





“

*It is a great honour for Angers, the leading green city in France, to host the 31st edition of the International Horticulture Congress, further rooting the city's plant identity even more deeply and durably into our territory. Throughout your week-long stay here, you will discover that Angers is:*

*a leading French hub of education and research in the plant-science sector, with 9 specialist research labs, 450 teaching researchers, technicians and engineers, and 3000 students,*

*the headquarters of many European and international institutions, like the OCVV/CPVO (Community Plant Variety Office), Plantes & Cité, INRAE or Vegepolys Valley,*

*the cradle of 700 businesses and growers keeping actively alive the specialized plant sector,*

*the only French city awarded the “Tree Cities of the World” label by FAO, the UN Food & Agriculture Organization, in recognition for its rich tree heritage and quality of life.*

”

**This convergence of assets, so unique in Europe, has turned Angers into a genuine global capital of the plant world, especially this year.**

**Your presence in Angers for the IHC Congress is therefore truly meaningful. Our city is extremely proud and happy to support this unique international event that you are attending this week.** ”

*I wish you all a great and fruitful congress.*

**Christophe Béchu**

PRESIDENT OF ANGERS LOIRE MÉTROPOLE,  
MINISTER OF ECOLOGICAL TRANSITION  
AND OF THE COHESION OF THE TERRITORIES

“

*The Pays de la Loire Region is pleased to welcome the International Horticulture Congress. The new edition of this unique global event will gather numerous research and education players by the side of business professionals, to focus on the challenges of the plant-growing sector.*

*We are fortunate to have committed and passionate horticulturists throughout our region, actively keeping this exceptional plant-growing sector alive. It is a great pleasure to be able to support them and help them strive.*

*I am therefore particularly proud to sponsor this special event whose goals are perfectly aligned with our regional government priorities, linked to employment, education and sustainability. This triple focus can help respond to the needs of horticultural stakeholders faced with the challenges of coping with climate change, enhancing their business competitiveness, and building tomorrow's jobs.*

*This Congress contributes greatly to building the reputation and prosperity of the Pays de la Loire territory, the leading horticultural producer in France, by fostering innovation and exchanges, and working jointly with all stakeholders to grow healthier food in our region.* ”

**Christelle Morançais**

PRESIDENT OF THE REGIONAL COUNCIL





# WHAT IS IHC?

*The International Horticultural congress,  
is the world's largest gathering of horticultural science research.*

**EVERY 4 YEARS**      **2ND TIME IN FRANCE**      **UNDER THE AUSPICES OF ISHS**      **6 DAYS**      **NETWORK OF 7000 members**



## \* HORTICULTURE :

Fruit trees, vegetable crops, seeds, aromatic & medicinal plants, vineyards, ornamental horticulture and landscaping.

## THE SPIRIT OF THE 31ST INTERNATIONAL HORTICULTURAL CONGRESS

IHC 2022 is organized into 3 key pillars:

### 1. A HIGH SCIENTIFIC LEVEL WITH A UNIQUE OPPORTUNITY TO GATHERING, MEETING AND DEBATING ON THE MAIN TOPICS:

- Competitiveness and skills for the Horticultural sectors
- Food, Public Health & Well-being
- Sustainability of production systems
- Climate change mitigation and adaptation solutions

### 2. MAKING VALUE FROM RESEARCH - EDUCATION - INDUSTRY

- The IHC2022 will be an opportunity to boost links between Research, Education and Industry in order to facilitate the transfer and application of research for industry. It is also the place to motivate and encourage young minds in Horticulture for the future.

### 3. DEVELOPING INTERNATIONAL COLLABORATIONS, IN PARTICULAR BETWEEN SOUTH AND NORTH. PROMOTING EXPERIENCE - SHARING AND BRINGING TOGETHER DIFFERENT TYPES OF HORTICULTURE.

- More than 80 countries represented
- 2300 delegates
- 25 symposia
- 2000m2 of exhibition

# PROGRAM OVERVIEW

**7 - 13  
AUGUST**

**SUNDAY  
14**

**MONDAY  
15**

**TUESDAY  
16**

8h00  
8h30

8h30  
10h00

10h00  
10h30

10h30  
12h30

12h30  
14h00

14h00  
15h00

15h00  
15h30

15h30  
16h00

16h00  
17h00

17h00  
17h30

17h30  
18h00

18h00  
19h30

Soirée

**ISHS EXCOM  
AND COUNCIL  
MEETINGS**

**REGISTRATION**

**OPENING  
CEREMONY**

**WELCOME  
COCKTAIL**

**PLENARY SESSION:**

ADAPTATION TO  
CLIMATE CHANGES  
AND EFFECT MITIGATION  
+ THESIS COMPETITION

*Coffee break*

**SYMPOSIA  
(oral presentations)**

*Lunch*

**SYMPOSIA  
(flash presentations)**

*Coffee break*

**SYMPOSIA  
(oral & flash  
presentations)**

*Break*

**WORKSHOPS ISHS  
BUSINESS MEETINGS**

**ANGERS  
GUIDED TOUR**

**PLENARY SESSION**

AGROECOLOGY  
/ SUSTAINABILITY OF  
PRODUCTION SYSTEMS  
+ THESIS COMPETITION

*Coffee break*

**SYMPOSIA  
(oral presentations)**

*Lunch*

**SYMPOSIA  
(flash presentations)**

*Coffee break*

**SYMPOSIA  
(oral & flash  
presentations)**

*Break*

**WORKSHOPS ISHS  
BUSINESS MEETINGS**

**SOCIAL EVENT  
« After Chenin »  
CONGRESS CENTER**

DETAILED PROGRAMME ON [WWW.IHC2022.ORG](http://WWW.IHC2022.ORG)



WEDNESDAY  
17

THURSDAY  
18

FRIDAY  
19

20 - 22  
AUGUST

## EXHIBITION

WELCOME

**SYMPOSIA**  
(oral presentations)

Coffee break

**SYMPOSIA**  
(oral presentations)

Lunch

**LOCAL  
TECHNICAL  
TOURS**

**SOCIAL EVENT**  
« Terra Botanica »

**PLENARY SESSION**  
COMPETITIVENESS AND  
SKILLS FOR HORTICULTU-  
RAL VALUE CHAINS  
+ THESIS COMPETITION

Coffee break

**SYMPOSIA**  
(oral presentations)

Lunch

**ISHS GENERAL  
ASSEMBLY**

Coffee break

**SYMPOSIA**  
(oral & flash  
presentations)

Break

**WORKSHOPS ISHS  
BUSINESS MEETINGS**

**GALA DINNER**  
GRENIERS ST JEAN

**PLENARY SESSION**  
FOOD, HUMAN HEALTH  
AND WELL-BEING  
OF CITIZENS  
+ THESIS COMPETITION

Coffee break

**SYMPOSIA**  
(oral presentations)

Lunch

**SYMPOSIA**  
(flash presentations)

Coffee break

**SYMPOSIA**  
(oral & flash  
presentations)

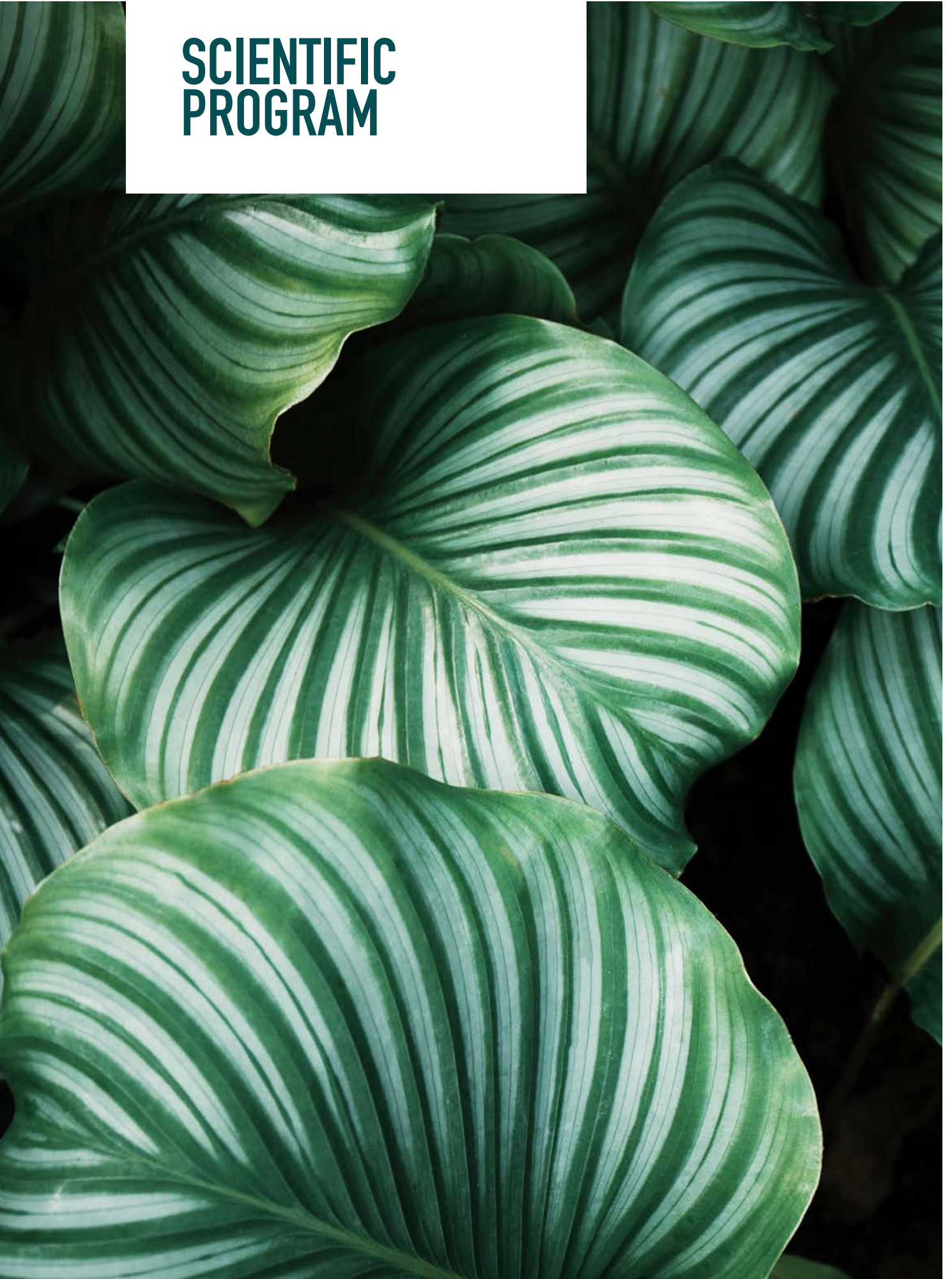
Break

**CONCLUSION**

**TECHNICAL  
& TOURISTIC  
TOURS, DAYS  
TOURS**



# SCIENTIFIC PROGRAM





# PLENARY SESSIONS

*The main objective of these session is to open the minds on main stakes. These plenary sessions will be open to all attendees. Each day, except Wednesday, will begin by a general plenary session before the symposia of the day. The thematic will be linked to the main scientific axes of the Congress. One or two keynotes speakers will present their overviews. They will come from different part of the world, background, sector of activity, not only researchers but also economists or world wild business manager.*

## ADAPTATION TO CLIMATE CHANGES AND EFFECT MITIGATION

08:30 - 10:00

Monday 15 August 2022

Horticulture plays a special role in the development challenge of climate change, thanks to two of its properties: the diversity of its cultivated species, which always offers a choice to the producer and a more or less rapid possible adaptation (more rapid in the case of short-cycle vegetables, less rapid in the case of fruit trees); and the possibility of modifying the climate under shelter, whether it be a lack or excess of water, too high or too low temperatures, by means of shelters, sophisticated greenhouses or growing chambers, nets or protective mulch. Reducing losses and wastage in horticulture (estimated at 30% of production) and changes in eating habits can also help limit negative impacts on the climate. What is the role of research, industry and policy in making significant changes in both approaches?

### KEYNOTE SPEAKERS :



Jean Jouzel

Research director (emeritus) at the French Atomic Energy Commission (CEA), Dr Jean Jouzel is an expert in climate and glaciology. He has mainly worked on the reconstruction of past climate derived from the study of the

Antarctic and Greenland ice. He has been a vice-chair of the Scientific Working Group of the IPCC (co-recipient of the Nobel Peace Prize 2007) from 2002 to 2015. From 2001 to 2008, he headed the Institute Pierre Simon Laplace. His work has been recognized with awards such as Milankovitch and Revelle medals. Together with Claude Lorius, he was awarded the gold medal by the CNRS in 2002. In 2012, with Susan Solomon, he was awarded the Vetlesen Prize, which is referred to as the "Nobel Prize for Earth sciences". In 2016, he has been elected as a foreign member of the US National Academy of Sciences (NAS) and in 2017 as a member of the French Academy of Sciences.



Rachel Bezner Kerr

Rachel Bezner Kerr is Professor in Global Development at Cornell University (New York, USA). She does participatory research in Africa on agroecology, gender, climate change adaptation, food and nutrition security. She has published over 70 scientific articles, in journals such as Proceedings of the National Academy of Sciences, and Agriculture, Ecosystems and Environment. She is a Coordinating Lead Author for Chapter 5 (the 'food chapter') for the Intergovernmental Panel on Climate Change upcoming report on climate change impacts, vulnerabilities and adaptation. In 2019 she was co-author of a report on agroecology for the United Nations Committee for World Food Security. Her long-term participatory research is in collaboration with a farmer-led organization in Malawi, the Soils, Food and Healthy Communities organization. Visiting scientist at CIRAD.

## AGROECOLOGY / SUSTAINABILITY OF PRODUCTION SYSTEMS

08:30 - 10:00

Tuesday 16 August 2022

Conventional and intensive horticulture, which supplies most international markets with fruit, vegetables, ornamental or aromatic plants, is not very ecological since it consumes fossil energy and synthetic products (plastics, fertilizers, pesticides), water, on variable surfaces subject to multiple pollutions. However, the great diversity of crops and horticultural systems matches particularly well with an obvious agroecological approach, with rapid and significant impacts. The combination of species with short cycles (vegetables and annual plants) or long cycles (fruit trees and perennial plants) naturally invites an increase in biodiversity and reasoning on the scale of a territory (production basin) rather than that of the plot, both for water and pest management. In contexts where family farming dominates, should horticulture adapt to the challenges of the planet (demography, climate, health, etc.) or set an example of sustainable solutions through shared agroecological approaches?

### KEYNOTE SPEAKERS :



Ameenah Gurib-Fakim

Ameenah Gurib-Fakim has been the Managing Director of the Centre International de Développement Pharmaceutique (CIDP) Research and Innovation as well as Professor

of Organic Chemistry with an endowed chair at the University of Mauritius. Since 2001, she has served successively as Dean of the Faculty of Science and Pro Vice Chancellor (2004- 2010). She has also worked at the Mauritius Research Council as Manager for Research (1995-1997).

# PLENARY SESSIONS

## AGROECOLOGY CONTINUED

As a Founding Member of the Pan African Association of African Medicinal Plants, she co-authored the first ever African Herbal Pharmacopoeia. She has authored and co-edited 30 books, several book chapters and scientific articles in the field of biodiversity conservation and sustainable development. Elected Fellow of several academies and societies, Ms Gurib-Fakim received several international prizes including the 2007 l'Oreal-UNESCO Prize for Women in Science, the African Union Commission Award for Women in Science, 2009. On 05 June 2015, she was sworn in as the 6th President and the First Female President of the Republic of Mauritius and served in that capacity until March 2018.

In 2019, she received the 'Trailblazing award for political leadership' by the World Women Leaders Council in Iceland. In 2020, she was elected Honorary President of the International and Engineering Institute and received their 2020 5th IETI Annual Scientific Award. She also received the IAS-COMSTEC Ibrahim Memorial Award

from the WIAS in Jordan. In 2021, she received the Benazir Bhutto Lifetime Achievement Award and appointed Distinguished Professor at the John Wesley School of Leadership at Carolina University, USA. In June 2016, she was in the Forbes List for the 100 'Most Powerful women in the world' and 1st among the Top 100 Women in Africa Forbes List 2017, 2019. She is honoured as one of Foreign Policy's 2015 Global Thinkers.



Pierre-Marie Aubert

Pierre-Marie Aubert is the head of the Agriculture & Food Policy Initiative at Iddri (Institut du développement durable et des relations internationales). With a background in landscape ecology and political sociology, his work focuses on food system scenario development. He combines for that a biophysical approach to food security functioning with a deep understanding of their socio-economic dimensions to identify policy levers and business solutions towards greater sustainability.

## COMPETITIVENESS AND SKILLS FOR HORTICULTURAL VALUE CHAINS

Thursday 18 August 2022

The sustainability of horticultural sectors obviously includes economic performance at the farm and enterprise levels. It is part of an even broader environment, that of food systems, which is extremely complex and particularly sensitive in the case of perishable products, affecting for example the terms of food sovereignty, or working conditions and the capacities of the workforce, which is essential to avoid jeopardising a harvest. What are the choices offered to horticultural value chains to combine social welfare, prosperity and environmental protection?

### KEYNOTE SPEAKERS :



Yvonne Pinto

Yvonne Pinto is privileged to have been born a Kenyan, raised an Ethiopian and become a UK and indeed global citizen. She has a BSc in Agriculture (Reading), MSc in Plant Biotechnology and PhD in Molecular Virology (Imperial) and General Management Executive Education (Cambridge).

She has a long career focused mainly on technology generation, innovation ecosystems and international development, and understanding what works (and for whom) across Latin America, Africa and Asia. The emphasis has always been on the practical and pragmatic, but through the support and value of excellent interdisciplinary and diverse networks in the global North and South. Yvonne began her early career in agricultural research and academia followed by 15 years in private philanthropy - creating and implementing investments in agriculture, enterprise, finance, and education, including the establishment of successful institutions particularly in Africa. For the past 15 years, Yvonne has led Aline Impact Limited, a professional consulting strategy firm specialising in performance and impact.

She has worked collaboratively with governments, UN agencies, international NGOs, the private sector, bilateral

and multilateral donors (including the UK government) and independent private foundations. She has worked respectfully to challenge them to think differently and to measure and evaluate the effectiveness of their work – always with an emphasis on robust evidence and listening to a diversity of views. Her experience has ranged from working towards solutions to some of the most intractable disease problems facing African agriculture to understanding the successful elements of digital economies and technology ecosystems at the policy and practice level. She has a keen interest in big data and its interface with science and sustainability in the bio-revolution that is upon us.



Jérôme Leroy

After scientific studies in Rennes and Kyoto, passionate about sport and innovation, Jérôme Leroy starts his career in Japan and join Decathlon during 15 years including 8 abroad: in Japan, Turkey, and India working for R&D department or as industrial business unit lead. With his entrepreneur spirit he co-created a spin off of Decathlon in 2009 in RFID technologies that has a mission to improve traceability of stocks from factory to store. Aware of a sustainable farming and ecosystems stakes, it's a passion

for Agriculture and Agronomy that catches him between 2011 and 2013, period during which he thought about the best way to commit and also attend an entrepreneurial training program at Stanford University. He then decides to found a project that matches his personal values as well as his professional experiences in Electronic, IT and logistics, WEENAT was launched in 2015: a story of passion for agronomy, agriculture and for those who built his

future around the world.

With other entrepreneurs, he likes to support new ventures that also carry those same values and purpose. He also co-created « La Ferme Digitale » leading AgTech startup association in France and became its President in 2022.

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## FOOD, HUMAN HEALTH AND WELL-BEING OF CITIZENS

08:30 - 10:00

Friday 19 August 2022

Horticultural products have a reputation for being healthy. Their nutritional benefits are all the more evident when consumed fresh and in a variety of ways, and in combination with a healthy lifestyle. However, health aspects should not be neglected, so that health risks do not outweigh the benefits. Food processing can ensure or prolong a sanitary quality, but in no case improve a defect resulting from poor production practices. Thus, the health value of horticultural food products is developed in the field or under shelter, not after harvest. Similarly, good eating habits are learned in childhood: is it then already too late to change both our individual and collective behaviors?

### KEYNOTE SPEAKERS :



Jennie Macdiarmid

Jennie Macdiarmid is a Professor of Sustainable Nutrition and Health and the Director of Interdisciplinary Centre for Health, Nutrition and Wellbeing, University Medical School Foresterhill Aberdeen (UK). She gained a BSc (Hons) in Nutrition and Food Science from the University of Surrey, during which she spent a year at the CSIRO research laboratories in Melbourne, Australia. After graduating she was a research assistant at the University of Dundee (Psychology dept) investigating chocolate and eating behaviours before moving to the University of Leeds where she completed her PhD. She went on to work for the International Obesity Task Force then moved to the University of Aberdeen. Her current research is interdisciplinary focused on food and nutrition security and the impact of diets on climate change, land use and trade at national and global levels. In addition to publishing in this area, she has contributed to many national and international reports on this topic.



Boitshepo «Bibi» Giyose

Boitshepo Bibi Giyose is a Senior Nutrition Officer for Policy and Programmes in the Nutrition and Food Systems Division at FAO, but currently on secondment to the African Union Development Agency (AUDA-NEPAD) as special advisor to the CEO since January 2018. Her work focuses on integrating and mainstreaming nutrition into agriculture and related development agendas, and to promote a multisector approach for addressing all forms of malnutrition. She holds a MS in International Nutrition from Cornell University, NY, and a BS in Nutrition and Dietetics from Appalachian State University, USA.

Ms. Giyose was awarded a "Distinguished Alumna Award" in recognition of exceptional professional achievement by Appalachian State University in 2007. She was also named Senior Policy Scholar in 2011 by the Global Child Nutrition Foundation – USA - for her work on Home Grown School Feeding. She has served on numerous international scientific technical and policy advisory committees.





# 25 SYMPOSIA TO TAKE STOCK AND TALK ABOUT RESEARCH ON HORTICULTURE

- S01** International Symposium on Breeding and Effective Use of Biotechnology and Molecular Tools in Horticultural Crops.
- S02** International Symposium on Conservation and Sustainable Use of Horticultural Genetic Resources.
- S03** International Symposium on Quality Seeds and Transplants for Horticultural Crops and Restorative Species.
- S04** International Symposium on In Vitro Technology and Micropropagated Plants.
- S05** International Symposium on Innovations in Ornamentals: from Breeding to Market.
- S06** International Symposium on Innovative Technologies and Production Strategies for Sustainable Controlled Environment Horticulture.
- S07** International Symposium on Greener Cities: Improving Ecosystem Services in a Climate-Changing World (GreenCities2022).
- S08** International Symposium on Advances in Vertical Farming.
- S09** International Symposium on Urban Horticulture for Sustainable Food Security (UrbanFood2022).
- S10** International Symposium on Value Adding and Innovation Management in the Horticultural Sector.
- S11** International Symposium on Adaptation of Horticultural Plants to Abiotic Stresses.
- S12** International Symposium on Water: a Worldwide Challenge for Horticulture!
- S13** International Symposium on Plant Nutrition, Fertilization, Soil Management.
- S14** International Symposium on Sustainable Control of Pests and Diseases.
- S15** International Symposium on Agroecology and System Approach for Sustainable and Resilient Horticultural Production.
- S16** International Symposium on Innovative Perennial Crops Management.
- S17** International Symposium on Integrative Approaches to Product Quality in Fruits and Vegetables.
- S18** International Symposium on Mechanization, Precision Horticulture, and Robotics: Precision and Digital Horticulture in Field Environments.
- S19** International Symposium on Advances in Berry Crops.
- S20** International Symposium on The Vitivinicultural Sector: Which Tools to Face Current Challenges?
- S21** International Symposium on Banana: Celebrating Banana Organic Production.
- S22** International Symposium on Natural Colorants from Plants.
- S23** International Symposium on Postharvest Technologies to Reduce Food Losses.
- S24** International Symposium on Human Health Effects of Fruits and Vegetables (FAVHEALTH2022).
- S25** International Symposium on Medicinal and Aromatic Plants: Domestication, Breeding, Cultivation and New Perspectives.



# 3MHT THESIS COMPETITION

## AN INTERNATIONAL COMPETITION FOR YOUNG SCIENTISTS WHO HAVE RECENTLY COMPLETED THEIR PH.D TO PRESENT THEIR THESIS IN 3 MINUTES AT THE IHC2022 PLENARIES

The Education Committee of IHC2022 is pleased to present an international competition for PhD theses in Horticulture, in the form of «My thesis in 3 minutes» competition. This new competition, named 3MHT, is conceived as a specific event, designed for this congress. It differs from the existing ISHS awards, more directly linked to the international symposia and often dedicated to young people in the course of their doctorate studies. The 3MHT is designed to showcase the work of young scientists who have recently defended an outstanding PhD in the field of horticulture.

A maximum of two candidates (women and men) were presented per country, with the approval of the national

institution responsible for Horticulture - ISHS Council member or not – accrediting them to participate in the competition. The best candidates were designated after a pre-selection by an international jury (spring 2022). These finalists will compete orally during IHC 2022, benefiting from a free registration to the Congress. The oral presentations of the 9 finalists will take place during the plenary sessions of August 15, 16 and 18. with a vote by the congress audience. The three winners according to this vote will be granted by the following entities: Agropolis Fondation, the French Horticultural Society SNHF, and Agreenium.



## GRANTS

### The following organizations and foundations joined efforts to award grants to attend the 31st International Horticultural Congress, taking place in Angers, France (14 to 20, August 2022)

They allow support the participation of PhD students, post-docs, researchers, lecturers and engineers to participate in IHC2022.

The grants and eligible expenses (registration, transport, accommodation) depend on the situation of candidates. More information on the conditions and requirements below.

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# CONVENING INSTITUTIONS AND SUPPORTS

## CO-ORGANIZER OF THE CONGRESS



The objective of Destination Angers is to ensure the conditions for an optimal, coordinated and coherent development of business and leisure tourism in our territory. This new structure allows us today to place the destination at the heart of our strategy in order to propose a global approach of the offer at the service of visitors, tourists, congress participants and organizers.



VEGEPOLYS VALLEY is a competitiveness cluster gathering together companies, research and training centres in the plant field around innovative projects to strengthen firm's competitiveness.

## CONVENING INSTITUTIONS



Created on January 1, 2020, the French National Research Institute for Agriculture, Food, and Environment (INRAE) is a major player in research and innovation. INRAE carries out targeted research and resulted from the merger of INRA and IRSTEA. It is a community of 12,000 people with 268 research, experimental research, and support units located in 18 regional centres throughout France. Internationally, INRAE is among the top research organisations in the agricultural and food sciences as well as in the plant and animal sciences. It is the world's leading research organisation specialising in agriculture, food, and the environment. INRAE's main goal is to be a key player in the transitions necessary to address major global challenges.



CIRAD is the French agricultural research and international cooperation organization working for the sustainable development of tropical and Mediterranean regions. Its scientific operations respond to the needs of local populations and the main global issues surrounding agriculture, food and the environment. Its work addresses the main challenges: food and nutrition security, climate change, natural resources management, reduction of inequalities and poverty alleviation.



The national institute of higher education for agriculture, food and the environment (Institut Agro) is committed to driving agro-ecological, food, digital and climate change transitions through its contributions in training, research, innovation and support for agricultural technical education. Institut Agro includes two institutes, Agrocampus Ouest and Montpellier SupAgro, and several campuses in France. Agrocampus Ouest campus in Angers is specialized in horticultural and landscaping sciences.



University of Angers is a multidisciplinary higher education and research institution. Teaching programs and research units in Plant Science greatly contribute to the university's reputation.



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**IHC 2022**

**ANGERS – FRANCE**