

CROP PROTECTION CHEMISTRY CROP PROTECTION: EDUCATION OF THE FUTURE GENERATION

**+3000** Belgium has most castles/ square km in the world







# May 19 - 24, 2019













www.iupac2019.be





With its canals and cobbled alleyways, it's perfect for a romantic getaway, and its thriving university gives the city a youthful buzz."

The Independent

# **Table of Contents**

Organisation
Welcome Address
Floor Plans of the Venue
Colour Codes of the Topics

## Programme

# Sunday

Opening Session ......

Monday

Programme at a Glance ..... Programme.... Poster Presentations .....

**Tuesday** Programme at a Glance..... Programme.... Poster Presentations .....

Wednesday Programme at a Glance ..... Programme.....

Thursday Programme at a Glance..... Programme..... Poster Presentations .....

Friday Programme at a Glance..... Programme.....

## Exhibitors & Sponsors ...

**General Information** 

Registration ..... Social Activities ..... General Information .....

## Notes



 4
 5
 6
 9
Ĩ

 11
 . 14
 . 16
 . 27
40
. 05
 . 82
 . 84
 . 109
. 128
138
. 100
 1/10
14

# **IUPAC 2019 Chairs**

## Chair

Prof. Dr. ir. Pieter Spanoghe Head of Research Group Crop Protection Chemistry Ghent University (UGent), Belgium



## Organisation

4

MediCongress Services NV Noorwegenstraat 49 9940 Evergem - Belgium Phone: +32 (0)9 218 85 85 Fax: +32 (0)9 344 40 10 Email: iupac@medicongress.com Web:www.medicongress.com



Dr. Nathan De Geyter Strategic Relations Manager Ghent University (UGent), Belgium





This programme belongs to		 
Email		 
If found, please return to the reg	jistration desk.	

## Welcome to IUPAC 2019

Dear attendee,

Welcome to Ghent! Have you ever heard of a bucket list? Do you have a list of key things to experience or do before you die? Do you desire to travel the world, to write a book, to find love, to meet or become a famous person or to see world heritage sites? For example, is seeing the most coveted painting in the world on your list? You can actually see the restauration of Van Eyck's 15<sup>th</sup> century altarpiece 'The Adoration of the Mystic Lamb' in the Museum of Fine Arts Ghent adjacent to this congress venue.

Since the start of my scientific career, I have attended several IUPAC Crop Protection congresses. I have always been very impressed with the sheer size, the scientific level of excellence and the logistics of organising such an international event. After my first visit, I thought that organising one edition myself at Ghent University, would help me in realizing many of my personal dreams. Now, this dream has become reality and I am able to welcome you all to this event that aims to highlight the fascinating world of crop health! Moreover, with this IUPAC congress, we also try to give you the ideal opportunity to cross some things off your bucket list!

This week, you will feel part of a global Crop Protection community. For more than 60 years, crop health experts have been sharing their expertise and discussing emerging issues of global significance in agriculture. For the first time ever, the 14<sup>th</sup> International IUPAC Congress on Crop Protection is a conjoined event with the European Crop Protection Association (ECPA) regulatory congress and the International Symposium on Crop Protection (ISCP). This illustrates the aim and need to facilitate a better exchange and more collaboration across various disciplines and between different actors.

As host, we at Ghent University want to make this congress as impactful as possible. You are with more than 1,500 helping us to achieve this goal. Amongst us we have world-renowned speakers, next-generation participants, academics, experts from industry, policymakers, students and many others. We aim to give you the opportunity to broaden your network and to reach out to your fellow international crop health experts.

The overall congress theme is "Crop Protection: Education of the Future Generation". We are proud that we realized our Next Gen programme and we invite you all to inspire, educate and collaborate with this next generation of crop health scientists and professionals.

Nathan and I wish you an exciting programme and a very memorable week in Ghent.

All the best,

....

Pieter Spanoghe Chair IUPAC 2019

Nathan De Geyter

G FACULTY OF BIOSCIENCE ENGINEERING

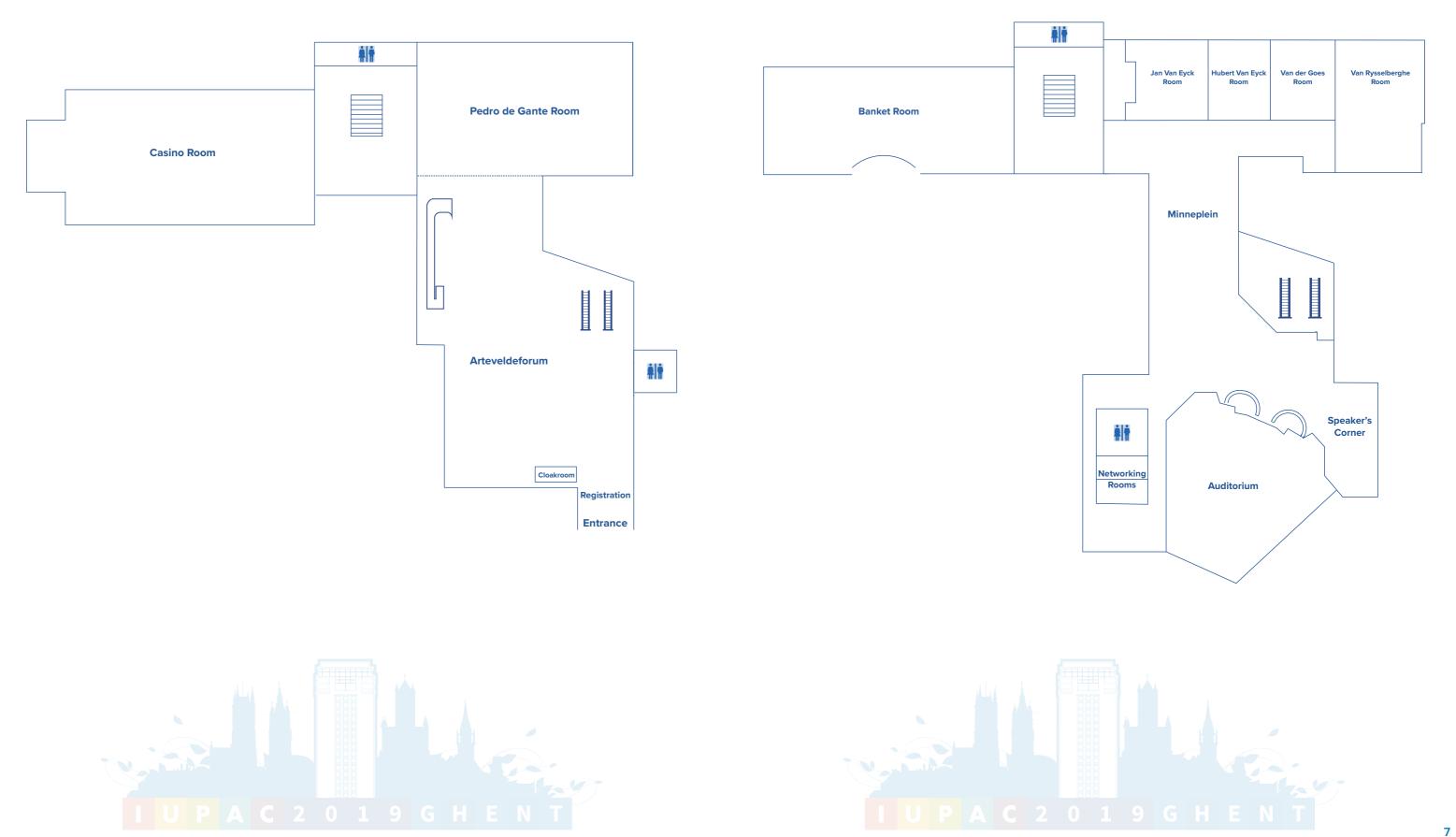
Co-chair IUPAC 2019 

GHENT UNIVERSITY

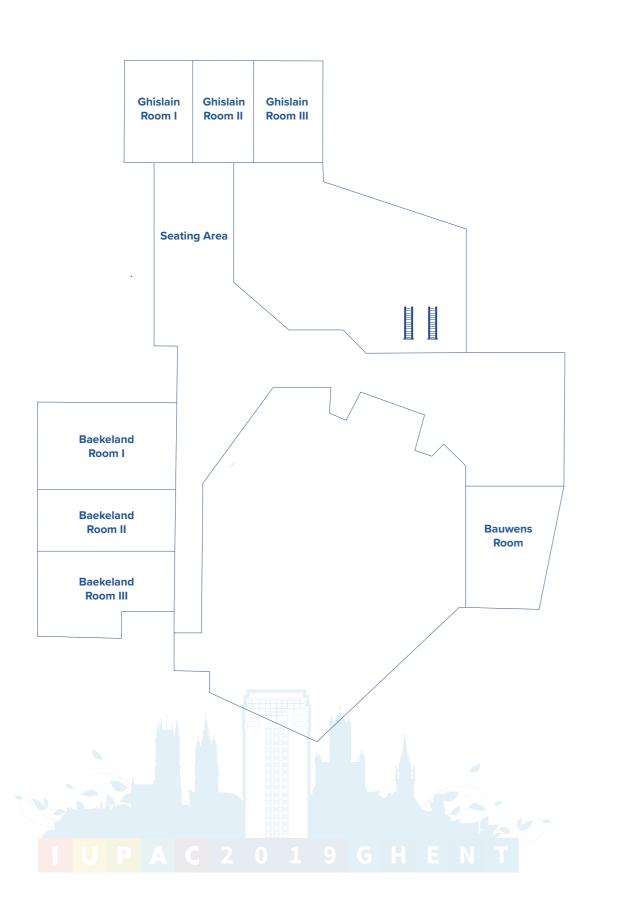


# **Floor Plan - Ground Floor**

Floor Plan - First Floor



**Topic Colour Codes** 







# Auditorium

# Sunday, May 19

15.00	Registration
16.30	<b>Opening Session</b> <b>Chairs:</b> Pieter Spanoghe, Chair IUPAC 2019 &
	<b>Official opening of the IUPAC 2019 Crop Pr</b> Pieter Spanoghe, Nathan De Geyter
	Welcome at IUPAC: 100 year anniversary an Laura McConnel, Bayer, USA and Ken Racke
	<b>IUPAC Award Presentation and lecture to h</b> Gordon Rennick, Department of Agriculture,
	Words of Welcome by the Congress Main S Rajan Gajaria, Corteva Agriscience, USA
	Words of Welcome by Nouryon, Reception Karin Bergström, Nouryon, Sweden

18.00

Welcome Reception offered by





& Nathan De Geyter, Co-Chair IUPAC 2019

rotection Congress

nd crop protection history e, Corteva Agriscience, USA

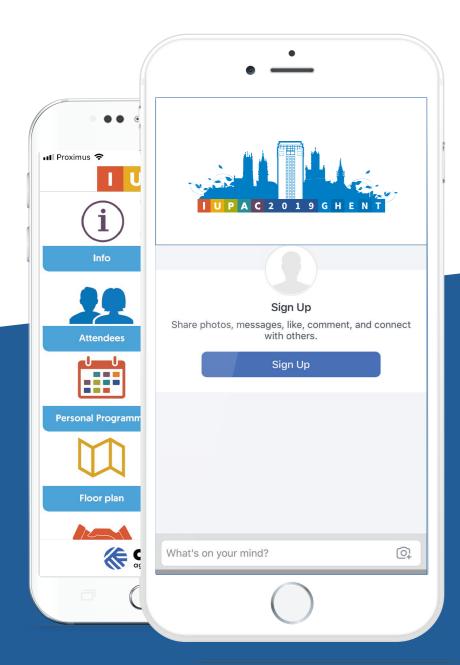
nonour Mark Lynch Food and the Marine, Ireland



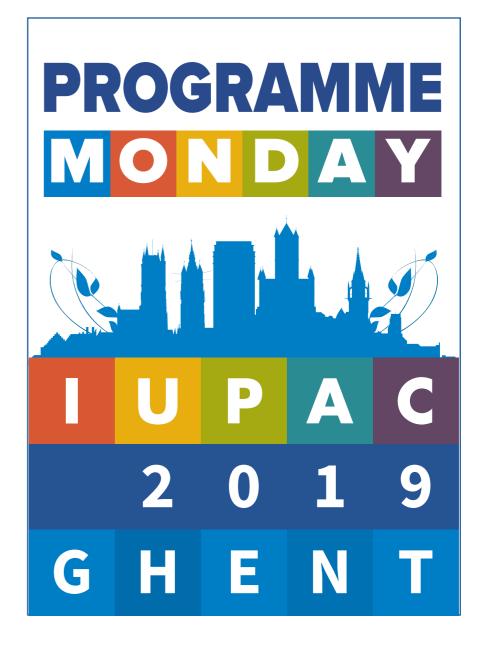
Sponsor

# Nouryon









# Programme - Monday, May 20

		Auditorium	Van Rysselberghe Room	Jan Van Eyck Room	Hubert Van Eyck Room
08.00	Poster hang-up Presentations upload				
08.30		Welcome Address M. Van Herreweghe			
08.40		Plenary Talk F. Stoddart			
09.45		1	Coffee		
10.20	Parallel Sessions		3.1 New chemistries targeting insect control (1/2)	2.1 RNA-based biocontrol	7.1 Measuring and predicting pesticide fate in soil, water, atmosphere and crops: from micro- to macro-scale
12.20/12.40			Lunch		
12.45-14.15	Lunch Workshops & Lunch Session				
13.00	Poster Session	Poste	er Presentations	of Topics 1, 5, 7	and 8
14.30-16.30	Parallel Sessions		3.1 New chemistries targeting insect control (2/2)	2.2 Nanotechno- logies	7.3 Laboratory- to-Landscape scale level investigations of the fate and transport of pesticides
16.30		1	Coffee		
17.00-18.00	Debate	Crop protection: science-based facts and fact based policy			

10	1.1	Coffee		
10	1.1	Coffee		
10	1.1			
Sustainable use and water protection	Responsible use training – How drive behavioral change among farmers	9.1 Fungicides: Mode of action and resistance	8.1 Effects of pesticides on non-target organisms (1/2)	5.1 Chances in exposure assessment and mitigation of operator and worker exposure and risk
		Lunch		HSK
August Kekulé in Ghent (1858-1867): When a dream came true	When plant becomes foods: Benefits and risks posed by the use of microbial control agents in edible plant production		Multi-actor approaches to enable effective mitigation of pesticides in surface water and groundwater	Residential exposure to pesticides in the Netherlands and beyond
	Poster Preser	ntations of Topic	s 1, 5, 7 and 8	
Advanced applications in digital farming	6.3 Modern analytical techniques to detect and control residues in food and feed (1/3)	9.2 Herbicides: Mode of action and resistance	8.1 Effects of pesticides on non-target organisms (2/2)	5.2 Regulatory updates & advances in exposure assessment and mitigation of resident and bystander exposure & risl
		Coffee		

08	.30	Welco	me Address						- 3.1 Nev	v chemistrie	es tarc	geting insec	t coi
	Auditoriun	ı						Van Rysselberghe	e				
	Monday		Tuesday	Wednesday	Thursday	Friday	Posters	Monday		Tuesday		Wednesday	

	Plenary Talk
08.40	<b>Research excellence through innovation: Doing one's own thing</b> Fraser Stoddart, Northwestern University, USA
09.45-10.20	Coffee Break
10.20-12.20/40	Parallel Sessions
12.20-14.30	Lunch, Lunch Workshops, Lunch Session and Poster Session
14.30-16.30	Parallel Sessions
16.30-17.00	Coffee Break

# 17.00-18.00 **Debate**

**Crop protection: Science-based facts and fact-based policy** Klaus Berend, European Commission Allan Buckwell, RISE Foundation, Belgium Hubert Deluyker, ex-EFSA, Belgium Sofie Vanthournout, Voedselteams vzw David Zaruk, Odisee University College, Belgium



	D • BASF We create charactery	3.1 New chemistries targeting insect cor Chairs: Peter Maienfisch, Syngenta Crop Pro Hisashi Miyagawa, Kyoto University, J
10.20	3.1.1	<b>Discovery and optimization of a novel insec</b> T. Nakao, Mitsui Chemicals Agro Inc., Japan
10.40	3.1.2	<b>Studies on a novel insecticide, fluxametami</b> Y. Furukawa, Nissan Chemical Corporation, Ja
11.00	3.1.3	The discovery of Isocycloseram: A novel iso M. El Qacemi, Syngenta Crop Protection, Swit
11.20	3.1.4	<b>Discovery, synthesis and structure-activity r</b> <b>insecticide</b> R. Fischer, Bayer AG, Germany
11.40	3.1.5	<b>Cyclaniliprole: A novel diamide insecticide</b> M. Tsukamoto, Ishihara Sangyo Kaisha Ltd, Ja
12.00	3.1.6	<b>Optimization of mesoionic pyrido[1,2-a] pyri</b> <b>controlling lepidoptera species</b> W. Zhang, FMC Agricultural Solutions, USA
12.20	3.1.7	<b>MNKE as a natural solution against insectici</b> S. Deprey, Oleon SAS, France
12.20-1	4.30	Lunch, Lunch Workshops, Lunch Session and

	U = BASF We create chemistry	<b>3.1 New chemistries targeting insect con</b> <b>Chairs:</b> Peter Jeschke, Bayer AG, Germany & 2							
14.30	3.1.8	<b>Biology &amp; chemistry connected: The develop</b> C. Koradin, BASF SE, Germany							
14.50	3.1.9	<b>Spiropidion discovery: Road spectrum contro</b> M. Muehlebach, Syngenta Crop Protection, Sw							
15.10	3.1.10	<b>Synthesis and biological activity of a novel in</b> E. Satoh, Nihon Nohyaku Co. Ltd., Japan							
15.30	3.1.11	<b>Design, synthesis and acaricidal activities of</b> <b>isosteric replacement</b> C. Zhou, East China University of Science and							
15.50	3.1.12	Cycloclavine: A natural product with insectic J. Dickhaut, BASF SE, Germany							
16.10	3.1.13	<b>Design, synthesis of OfHex1 Inhibitors as no</b> J. Zhang, China Agricultural University, China							
16.30-1	7.00	Coffee Break							



ri	А	-	• •
н	u	d	y

# ntrol (I)

otection AG, Switzerland & Japan

# cticide, broflanilide

**ide** Japan

## **oxazoline insecticide** ritzerland

relationship of tetraniliprole (VayegoTM), a novel diamide

## apan

imidinone insecticides & discovery of 3-biaryl analogs

# ide-resistant pests

# Poster Session

# ntrol (II)

Xuhong Qian, East China Normal University, China

# pment of Inscalis®

rol of sucking pests and mites for multi-crop utility witzerland

# insecticide, benzpyrimoxan

# f Cyflumetofen analogues based on carbon-silicon

d Technology, China

# cidal potential

ovel pesticidal leads

Monday	Tuesday	Wednesday	Thursday	Friday	Posters	Monday		Tuesday	Wednesday	
Jan Van						Hubert Va	n			1
Eyck						Eyck				1

	syngenta.	2.1 RNA-based biocontrol Chair: Geert Plaetinck, Syngenta, Belgium		++++ ENVIGO	7.1 Measuring and predicting pesticide fate in soil, water, atmosphere and cr to macro-scale
10.20	2.1.1	<b>RNA-based biocontrols: The bio-delivery challenge</b> P. Feldmann, Syngenta, Belgium	10.20	7.1.1	Chairs: Pamela Rice, Agricultural Research Service, USA & Colin Brown, University of Long-term monitoring of pesticides in air and atmospheric deposition in Sweden
10.40	2.1.2	The OST-complex as target for RNAi-based pest control in N. Lugens K. De Schutter, Ghent University, Belgium	10.40	7.1.2	J. Kreuger, Swedish University of Agricultural Sciences, Sweden  Development of a predictive tool for herbicide adsorption in soil  C. Styles, Manageh University, Australia
11.00	2.1.3	<b>RNA interference-based crop protection: Food &amp; feed safety, detectability, regulation, and efforts towards international harmonization</b> G.A. Kleter, RIKILT Wageningen University & Research, The Netherlands	11.00	7.1.3	<ul> <li>G. Styles, Monash University, Australia</li> <li>Impact of uncertainty in model input data on predicted pesticide leaching at the fiel</li> <li>C.G. Hoogeweg, Waterborne Environmental Inc., USA</li> </ul>
11.20	2.1.4	<b>A novel and efficient virus-based RNAi delivery system for fruit flies</b> C.N.T. Taning, Ghent University, Belgium	11.20	7.1.4	Strategies to protect water quality: Evaluation of management practices to reduce t transport of pesticides with runoff from turfgrass
11.40	2.1.5	Liposome encapsulation and EDTA formulation of dsRNA improves oral RNA interference efficiency in the neotropical stinkbug Euschistus heros N.L. Castellanos, Ghent University, Belgium	11.40	7.1.5	P.J. Rice, Agricultural Research Service, USA Predicting pesticide concentrations to support raw water intake for drinking water p
12.00	2.1.6	The use of nanocarriers and formulations to improve RNAi-based pest control			study WPC De Blankaart in Belgium N. Desmet, Flemish Institute for Technological Research, Belgium
12.20	2.1.7	O. Christiaens, Ghent University, Belgium Guanylated polymer mediate delivery of dsRNA in midgut-derived cell line of the spruce budworm,	12.00	7.1.6	Mapping pesticide fate processes in Africa to analyse potential pesticide hotspots C. Hendriks, University of Oxford, UK
		<b>choristoneura fumiferana (CF203)</b> Z. Martinez, Ghent University, Belgium	12.20	7.1.7	Quantification of pesticide residues in environmental compartments in fruit orchard Belgium G. Claus, Ghent University, Belgium
12.20-1	4.30	Lunch, Lunch Workshops, Lunch Session and Poster Session	12.40-14	4.30	Lunch, Lunch Workshops, Lunch Session and Poster Session
		2.2 Nanotechnologies Chair: R. Kookana, CSIRO, Land & Water, Australia		++++ ENVIGO	<b>7.3 Laboratory-to-landscape scale level investigations of the fate and transp</b> <b>Chairs:</b> Amy Ritter, Waterborne Environmental Inc., USA & Marco Trevisan, Università Cattolica del Sacro Cuore, Italy
14.30	2.2.1	Nano-scale formulation of botanical pesticides for use in sustainable agriculture L.F. Fraceto, São Paulo State University, Brazil	14.30	7.3.1	Dicamba behavior under field and laboratory conditions T.C. Mueller, University of Tennessee, USA
14.50	2.2.2	Nanopesticides and their performances against their conventional analogues R. Kookana, CSIRO, Land & Water, Australia	14.50	7.3.2	<ul> <li>Pesticide sorption by soils and sediments, as well as other materials such as micropla</li> <li>A. Farenhorst, University of Manitoba, Canada</li> </ul>
15.10	2.2.3	The regulation of mesoporous silica nanoparticles to regulate the uptake and transportation performance of pesticides in cucumber P. Zhao, Chinese Academy of Agricultural Sciences, China	15.10	7.3.3	Evaluation of the representativeness of public monitoring data to assess the potent groundwater: A case study V.B. Houck, Arcadis, USA
15.30	2.2.4	Trichoderma harzianum biogenic metallic nanoparticles toxicity against Spodoptera frugiperda populations resistant to Bt maize R. A. Polanczyk, São Paulo State University, Brazil	15.30	7.3.4	Influence of grape cultivation on the management and quality of groundwater in Tio N.A. Suciu, UCSC, Italy
15.50	2.2.5	Silver nanoparticles stabilized with humic substances cause enhanced toxicity towards wheat plants and algae I.V. Perminova, Lomonosov Moscow State University, Russia	15.50	7.3.5	Assessment of potentially vulnerable use areas in western Africa C.G. Hoogeweg, Waterborne Environmental, USA
16.10		Discussion	16.10	7.3.6	Understanding the fate of agricultural chemical transport to surface water using mult A. Ritter, Waterborne Environmental Inc., USA
16.30-1	7.00	Coffee Break	16.30-17	7.00	Coffee Break

# fate in soil, water, atmosphere and crops: From micro-

Service, USA & Colin Brown, University of York, UK

- nd atmospheric deposition in Sweden ral Sciences, Sweden
- ide adsorption in soil
- on predicted pesticide leaching at the field level Inc., USA
- ion of management practices to reduce the off-site fgrass
- port raw water intake for drinking water production, case
- cal Research, Belgium
- to analyse potential pesticide hotspots
- ronmental compartments in fruit orchards of Flanders,
- Poster Session
- investigations of the fate and transport of pesticides tal Inc., USA & del Sacro Cuore, Italy
- ory conditions
- s well as other materials such as microplastics and biochars ada
- blic monitoring data to assess the potential for leaching to
- gement and quality of groundwater in Tidone Valley
- reas in western Africa , USA
- ical transport to surface water using multi-scale field studies

Monday	Tuesday	Wednesday	Thursday	Friday	P	osters	Monday	Tuesday	Wednesday
Van der Goes							Bauwens		

	ARCADIS	<b>1.8 Sustainable use and water protection</b> <b>Chairs:</b> Caroline Harris, Exponent International Ltd., UK & Geert Haesaert, Ghent University Belgium			<b>1.1 Responsible use training – How drive b</b> <b>Chair:</b> Andrew Ward, CropLife International, Be
10.20	1.8.1	The TOPPS project: Developing and disseminating best management practices for water protection in agriculture – Concept and methodology	10.20		Opening remarks A. Ward, CropLife International, Belgium
10.40	1.8.2	V. Laabs, BASF SE, Germany Current and future challenges for achieving and maintaining good chemical status in EU water	10.40	1.1.1	<b>'Safe use harbour' assisting china on sustaina</b> L. Zhengping, Plant Quarantine and Protection S
		<b>bodies following pesticide use</b> R.J. Blake, Compliance Services International, UK	11.00	1.1.2	<b>Bayer's safe use ambassador programme</b> V. Sharma, Bayer Pte Ltd, Singapore
11.00	1.8.3	<b>Mitigating pesticide runoff in an agricultural catchment</b> I. Joris, VITO, Belgium	11.20	1.1.3	Pollinators & pesticides can coexist – Creating increasing productivity in pollinator dependen V. Sharma, Bayer, Singapore
11.20	1.8.4	Effect of differing regulatory guidance on the risk-based management of active pharmaceutical ingredients in industrial wastewater discharges N.D. Forsberg, Arcadis U.S., USA	11.40	1.1.4	The EVATM app, an ICT tool for a more correct implementation of IPM D. Bylemans, Research Center for Fruit npo, Bel
11.40	1.8.5	<b>Step- water: Online water protection evaluation tool for crop sprayers</b> M.Roettele, BetterDecisions, Germany	12.00	1.1.5	Improving the impact of stewardship: Sustaine A. Ward, CropLife International, Belgium
12.00-	14.30	Lunch, Lunch Workshops, Lunch Session and Poster Session	12.20	1.1.6	<b>Stewardship of unmanned aerial vehicle in cro</b> R. Brown, Carabid Life Science Consulting, Swit
			12.40-14	1.30	Lunch, Lunch Workshops, Lunch Session and Po
12.45-	14.15	Lunch Session IUPAC and August Kekulé in Ghent (1858-1867): When a dream came true Pierre De Clercq, Ghent University, Belgium	12.45-14	1.15	Lunch Workshop When plant becomes foods: Benefits and risk edible plant production e.g. the case of Bacillu Organisers: Mieke Uyttendaele (Dept. Food Teo Plants & Crops), Ghent University, Belgium, mer
	Ashland away sawing	<b>4.1 Advanced applications in digital farming</b> <b>Chair:</b> Abdul Mouazen, Ghent University, Belgium			<b>6.3 Modern analytical techniques to detec</b> <b>Chairs:</b> Jose Diana di Mavungu, Ghent Univers Sara Cunha, University of Porto, Portug
14.30	4.1.1	<b>Remotely-piloted aircraft for delivery of agrochemicals: Operational experience and success</b> D. Gilles, University of California, USA	14.30	6.3.1	The role of analytical testing to ensure food sa N. Gras, Chilean Food Safety and Quality Agend
14.50	4.1.2	DroplegUL – Site specific application in arable crops and vegetables R. Heinkel, Lechler GmbH, Germany	14.50	6.3.2	Comparison of Electrospray and UniSpray, a n LC-MS/MS analysis of pesticides residues in fo
15.10	4.1.3	On-line field measurement of yellow rust and fusarium head blight cereal crops using a hyperspectral imager R.L. Whetton, University College Dublin, Ireland	15.10	6.3.3	J.H.Y. Galani, University of Leeds, UK Application of deep eutectic solvent in extract
15.30	4.1.4	Applying the third and fourth dimension to precision agriculture in apple production	15.10	0.0.0	S.C. Cunha, University of Porto, Portugal
15.50	4.1.5	D.C. de Hoog, Wageningen UR, The Netherlands OPTIMA - OPTimised Integrated Pest Management for precise detection and control of plant	15.30	6.3.4	Multi-plug filtration cleanup and its automated C. Pan, China Agricultural University, China
		diseases in perennial crops and open-field vegetables N. Mylonas, Agricultural University of Athens, Greece	15.50	6.3.5	<b>Pesticide residue analysis for herbs and specie</b> M.V. Cesio, GACT. Facultad de Quimica, Urugua
16.30-	17.00	Coffee Break	16.10	6.3.6	<b>Does the chemical control of ramularia interfe</b> M.C. Palladino, PDU, Uruguay
			16.30-17	7.00	Coffee Break

Th	ursc	lav
	uisc	iay

Friday

Posters

**behavioral change among farmers** Belgium

nable agriculture on Station of Heilongjiang Province, China

ing awareness through responsible use of pesticides & lent crops through professional pollination

rect use of plant protection products and a better

Belgium

ined farmer behaviour change at scale

crop protection witzerland

Poster Session

isks posed by the use of microbial control agents in cillus thuringiensis versus human pathogenic B. cereus Technology, Safety & Health), Monica Höfte (Dept. of member of EU COST Action 16110 on HUPLANTControl

tect and control residues in food and feed (I) ersity, Belgium & ugal

**I safety and quality** ency, Chile

a novel atmospheric pressure ionization interface, for food and water matrices

action of emergent pollutants in fish oils

ed method for pesticide/veterinary drug residue analyses

cies methodology, exposure evaluation and regulations

rfere in the food safety of barley grains?

	Monday		Tuesday		Wednesday	Thursday	Friday		Posters	Monday	Tuesday	Wednesday	
	Baekeland I									Baekeland II			
I		L		1				1					

	BAYER E R	9.1 Fungicides: Mode of action and resistance Chairs: Geert Haesaert, Ghent University Belgium & Andreas Mehl, Bayer AG, Germany			8.1 Effects of pesticides on non-target orga Chairs: Paul van den Brink, Wageningen Univers Karel De Schamphelaere, Ghent Univers
10.20	9.1.1	Aminopyrifen, a novel 2-amino nicotinate fungicide with a unique mode of action and broad- spectrum M. Hatamoto, Agro-Kanesho Co., Japan	10.20	8.1.1	<b>Environmental screening of agricultural contam</b> <b>amphibian biodiversity conservation</b> T. Goessens, Ghent University, Belgium
10.40	9.1.2	Different sensitivity of sclerotinia sclerotiorum towards SDHIs with both target site and non-target site mutations identified through sensitivity monitoring in Japan and France M. Yamashita, Nihon Nohyaku Co., Japan	10.40	8.1.2	<b>Fish extended one generation reproduction tes</b> <b>minnow</b> T. Goodband, Smithers Viscient Ltd., UK
11.00	9.1.3	The mitochondrial complex III inhibitor Ametoctradin has an unusual binding mode M. Fehr, BASF SE, Germany	11.00	8.1.3	Interspecific variability of fatty acid profiles of f F. Demailly, Irstea Cestas, France
11.20	9.1.4	Molecular aspects of fungicide resistance and relevance for resistance management A. Mehl, Bayer AG, Germany	11.20	8.1.4	<b>Experimental studies to provide long-term data</b> <b>Myriophyllum spicatum</b> S. Taylor, Adama Agricultural Solutions, UK
11.40	9.1.5	Isotianil - A new tool for the control of wheat blast caused by Magnaporthe oryzae Triticum / Pyricularia graminis-tritici, an emerging global threat D. Portz, Bayer AG, Germany	11.40	8.1.5	Holistic considerations for the derivation of spe ecosystem services – A case study for non-targ C.J. Mayer, BASF SE, Germany
12.00	9.1.6	Multi-resistant populations of cercospora beticola, new problem need adequate chemical solutions N.R. Trkulja, Institute for Plant Protection and Environment, Serbia	12.00	8.1.6	<b>Protection goals for terrestrial non-target plant</b> <b>achievable?</b> J. Davies, Syngenta, UK
12.00-1	14.30	Lunch, Lunch Workshops, Lunch Session and Poster Session	12.20	8.1.7	<b>Is the large-scale production of banana and pin</b> <b>rivers?</b> L. Herrero-Nogareda, University of Copenhagen,
	BAYER E R	9.2 Herbicides: Mode of action and resistance Chairs: Benny De Cauwer, Ghent University, Belgium & Franck Dayan, Colorado State University, USA	12.40-1	4.30	Lunch, Lunch Workshops, Lunch Session and Pos
14.30 14.45	9.2.1	Aclonifen – Deciphering a novel mode of action of a commercialized herbicide using systems biology P. von Koskull-Doering, Bayer AG, Germany Disruption of plant de novo pyrimidine biosynthesis at a specific step in the pathway by a new class	12.45-1	4.15	Lunch Workshop Multi-actor approaches to enable effective groundwater Organisers: WaterProtect, FairWay and TOPPS c
15.00	9.2.3	of herbicide causes selective phytotoxicity with commercial levels of activity S. Gutteridge, FMC Agricultural Solutions, USA Molecular insights into the mechanism of 4-Hydroxyphenylpyruvate Dioxygenase inhibition: Enzyme kinetics, X-ray crystallography and computational simulations			8.1 Effects of pesticides on non-target orga Chairs: Paul van den Brink, Wageningen Univers Karel De Schamphelaere, Ghent Univers
15.15	9.2.4	W.C. Yang, Central China Normal University, China Patterns of molecular evolution and population genetics of glyphosate resistance in Amaranthus	14.30	8.1.8	HPPD gene of non-target microorganisms: A ne communities to -triketone herbicides? C. Thiour-Mauprivez, Université de Perpignan, Fr
		palmeri show curvilinear relationships between EPSPS gene copy number and resistance in some, but not all, biotypes within populations B. Nichols, Cotton Inc., USA	14.50	8.1.9	Volatile chemical pesticide - Guideline for earth L. Mao, Chinese Academy of Agricultural Science
15.30	9.2.5	Unraveling herbicide detoxification mechanisms in several plant species - Implication for non-target site weed resistance management	15.10	8.1.10	Agricultural field studies on neonicotinoids in p J.R. Coats, Iowa State University, USA
15.45	9.2.6	R. Beffa, Bayer AG, Germany <b>Crop specificity of herbicide safeners</b> G. Giannakopoulos, Newcastle University, UK	15.30	8.1.11	Guttation as an exposure route in the risk asses available data U. Zumkier, Tier3 Solutions, Germany
16.00	9.2.7	Reactive oxygen species trigger the fast action of glufosinate F.E. Dayan, Colorado State University, USA	15.50	8.1.12	<b>Recommendations for standardized oral toxicity</b> I. Meeus, Ghent University, Belgium
16.15		Discussion	16.10	8.1.13	A functional toxicogenomics approach to under butenolide insecticide flupyradifurone R. Nauen, Bayer AG, Germany
	17.00	Coffee Break		7.00	Coffee Break

22

## **rganisms (I)** versity, The Netherlands & versity, Belgium

taminants in fresh water ecosystems as part of

# test: A Comparison between Medaka and Fathead

of freshwater diatoms in response to herbicides

ata sets for testing population models for Lemna sp. and

specific protection goals for risk assessment based on arget terrestrial plants

ants: Is in-field protection of beneficial weeds

# pineapple posing a risk to stream biota in Costa Rican

gen, Denmark

Poster Session

# ve mitigation of pesticides in surface water and

S consortia

# rganisms (II)

versity, The Netherlands & versity, Belgium

# A new tool to monitor the exposure of soil microbial

, France

## arthworm acute toxicity test ences, China

in pollen from bees

# ssessment for plant protection products – Review of the

city test protocols for larvae of solitary bees, Osmia spp.

# derstand the honey bee-friendly profile of the

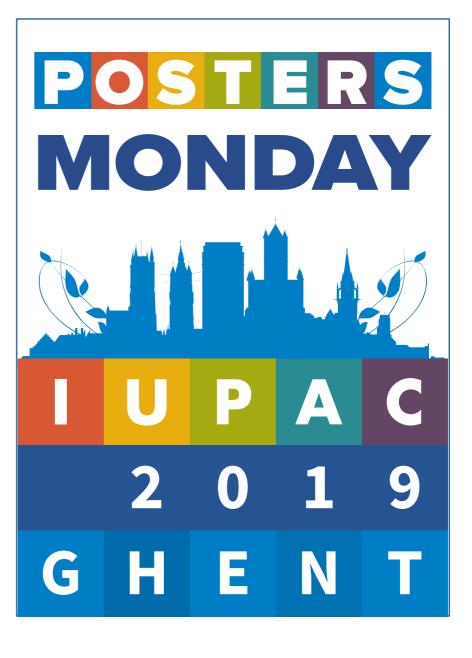
# 19**GHENT**

	Monday	-	Tuesday	Wednesday	Thursday	Friday	Posters			
	Baekeland II	I								
10.20	0 5.1.1	Chairs: Ria	anda Gerritse n of transfer (	n-Ebben, TNO, The N coefficients for the ri	etherlands & Suzar	nne Spaan TNO, <sup>-</sup>				
<b>growth stage arable crops</b> S.D. Adham, Syngenta Ltd. International Research Centre, UK										
10.40	<ul> <li>5.1.2 Pesticide exposure assessment of residents during pesticides spraying operations: Application o</li> <li>EFSA's model with field data</li> <li>I. Ruthy, ISSeP, Liège, Belgium</li> </ul>									
11.00	5.1.3	-	able foliar res ussel, STAPH`	<b>idue studies: Refiner</b> YT, France	nent of leaf surfac	e calculation				
11.20	5.1.4	-		<b>equirements based o</b> Maryland Eastern Sho						
11.4C	5.1.5	Performa	-	e layer of clothing o		exposure to pest	icides			
12.00	0 5.1.6		<b>ng operator e</b> me, Envigo, S	<b>xposure studies on s</b> pain	stored potatoes					
12.20	D-14.15	Lunch, Lui	nch Workshop	os, Lunch Session and	Poster Session					
12.4	5-14.15	Organiser (TNO), Jar	tial exposure rs: Esmeralda	<b>ne Netherlands a</b> Jniversity), Jan Duy: ersity and Research	zer (TNO), Rianda					
		and byst Chairs: C	ander expos lare Butler Ell	<b>tes and advances i</b> sure and risk is, Silsoe Spray Applie German Federal Inst	cations Unit Ltd, UK	. &	igation of resident			
14.30	5.2.1	products	<b>f the EFSA G</b> i EFSA, Italy	uidance Document o	n non-dietary expo	osure assessmen	t to plant protection			

- 14.505.2.2Recent developments in assessing resident and bystander exposure to pesticides<br/>M.C. Butler Ellis, Silsoe Spray Applications Unit Ltd, UK
- 15.10 5.2.3 Spray drift exposure of residents and bystanders after application of plant protection products in high crops
   S. Martin, German Federal Institute for Risk Assessment, Germany
- 15.30 5.2.4 Assessing resident and bystander health risks from pesticide use in conventional and innovative cropping systems with the browse model L. Mamy, INRA-AgroParisTech-Université Paris-Saclay, France
- 15.50 5.2.5 Risk assessment of combined exposure to multiple chemicals; legislative and scientific approaches for implementation of a mechanism Based test strategy
   J. Schubert, German Federal Institute for Risk Assessment, Germany
- 16.10 Discussion

16.30-17.00

Coffee Break



# **HELPING FARMERS GROW**

CropLife International and its global network are the voice and leading advocates for the plant science industry.



# We champion the role of INNOVATIONS in -CROP PROTECTION AN PLANES OF ECEN

to support and advance SUSTAINABLE AGRICULTURE

Visit www.croplife.org or get in touch on email croplife@croplife.org



		Post	ore
Monday	Tuesday	Wednesday	

Stewardship, regulation and con

- Best management practices for limiting pesticide drainage & leaching P1.1 J.S. Dyson Syngenta Crop Protection AG, Switzerland
- P1.2 Skin sensitization assessment for agrochemicals – A suggested approach assessing the applicability of non-animal test methods/approaches and global acceptance A. Martins, R. Guest, K. Fitzpatrick, J. Marshall Envigo, Huntingdon, UK
- Post-reach 2018 assessment of in vitro skin sensitisation testing for organic substances P1.3 S. Jacobs<sup>1</sup>, M. Bilau<sup>1</sup>, A. De Smedt<sup>2</sup>, K. Vriens<sup>2</sup>, I. van de Gevel<sup>2</sup> <sup>1</sup>Arcadis Belgium nv/sa; <sup>2</sup>Janssen Pharmaceutica N.V., Belgium
- P1.4 risk assessment and risk management of pesticides L.L. McConnell<sup>1</sup>, D. Seth-Carley<sup>2</sup>, J.X. Tang<sup>1</sup> <sup>1</sup>Bayer U.S.; <sup>2</sup>North Carolina State University, USA
- P1.5 A simple system for border control to prevent illegal crop protection products entering a country H. Chin Sue Envigo, UK
- Predictive approaches for assessing environmental fate and metabolism of pesticide P1.6 M. Ma, K. Lynn, V. Badwaik, P. Yu, M. Chase, Y. Adelfinskaya, M. Hastings, A. Eatherall, S. Gehen, G. Shan Crop Protection Regulatory Sciences, USA
- P1.7 experts towards future application techniques <u>A. A</u>lix Corteva Agrisciences, UK
- P1.8 studies R. Mumford, S.H. Swales Smithers Viscient ESG Ltd, UK
- P1.9 Bringing satellite based disease warning to African smallholder farmers over social channels A. Sharma BASF SE, Germany
- P1.10 some measured soil properties E. Afriyie, A.P. Guerrero, S. Nawar, A. Verdoodt, A.M. Mouazen Ghent University, Belgium
- Use of a GeoInformation System (GIS) in agriculture to protect water quality P1.11 C. Geck<sup>1</sup>, D. Feise<sup>2</sup>, D. Lembrich<sup>3</sup> <sup>1</sup>University Hamburg; <sup>2</sup>Geoinformationservice; <sup>3</sup>Bayer AG, Germany
- Review of agrochemical regulations in Brazil P1.12 A.P. Martins Envigo, UK
- Bayer crop science, building society's trust through transparency P1.13 C. Morr Bayer AG, Germany







Thursday		Friday		Posters Monday				
topic 1 munication: Future challenges								

Results of a multi-stakeholder workshop on incorporating the benefits of vegetative filter strips into aquatic

Risk mitigation measures for pesticides in the EU (MAgPIE project) – Recommendations from the workshop

Evaluation of in-vitro plant metabolism as a tool to aid identification of metabolites from crop metabolism

Assessing the accuracy of sub-catchment generated vis-NIR-PLSR models in simulating field spatial trends of



# **D** • **BASF** We create chemistry

# **BASF's scientists are** making farming more sustainable.

With our innovative products and processes, we provide sustainable solutions for global needs.

	Monday	Tuesday		Wednesday	
		Non-di	etary	Post human hea	ers to I <b>th h</b> a
P5.1		<b>ring regulato</b> <u>kens</u> 1, E. Codr	-	•	

P5.2 Unit exposure levels in electric backpack sprayer and stretcher-mounted sprayer pesticide preparator/ applicator in orchards X.H. An, S.G. Wu, J.H. Jiang Zhejiang Academy of Agricultural Sciences, China

<sup>1</sup>Gowan Crop Protection, UK; <sup>2</sup>Gowan Company, USA

- Dislodgeable Foliar Residue (DFR) studies with simulated rain P5.3 S. Brewin<sup>1</sup>, H. Harper<sup>1</sup>, J. Bartolome<sup>2</sup>, E. Ale<sup>2</sup> <sup>1</sup>Envigo CRS Ltd, UK; <sup>2</sup>Envigo CRS Ltd. Sucursal en España, Spain
- P5.4 Conducting operator exposure studies on stored potatoes S. Brewin<sup>1</sup>, H. Harper<sup>1</sup>, J. Bartolome<sup>2</sup>, E. Ale<sup>2</sup> <sup>1</sup>Envigo CRS Ltd, UK; <sup>2</sup>Envigo CRS Ltd. Sucursal en España, Spain
- Dermal absorption studies: A review of the impact of the new EFSA guidance document on dermal P5.5 absorption data A. Jones, S. Penketh Envigo, UK
- P5.6 OECD 443 extended one generation reproduction toxicity study: Some important considerations relating to study conduct G. Armour, D.P. Myers, S. Renaut, R. Renaut, D. Stannard Envigo, UK
- P5.7 H.H. Boukhalfa, N. Guehiliz, K. Deghnouche University Mohamed Khider-Biskra, Algeria
- P5.8 Analysis of phytosanitary practices of farmers in Doucen, Biskra-Algeria H.H. Boukhalfa, K. Deghnouche, K. Farhi, H. Zikem University Mohamed Khider-Biskra, Algeria
- Exposure assessment to pesticides in the vicinity of treated field: Case study in school playgrounds and P5.9 in private gardens I. Ruthy<sup>1</sup>, S. Remy<sup>1</sup>, M. Veschkens<sup>1</sup>, B. Huyghebaert<sup>2</sup>, J.L. Herman<sup>2</sup>, O. Pigeon<sup>2</sup>, B. Schiffers<sup>3</sup> <sup>1</sup>ISSeP; <sup>2</sup>CRA-W; <sup>3</sup>ULiège, Belgium
- P5.10 Assessment of exposure to pesticides of residents living in the vicinity of treated fields I. Ruthy<sup>1</sup>, S. Remy<sup>1</sup>, Ch. Frippiat<sup>1</sup>, M. Veschkens<sup>1</sup>, J.L. Herman<sup>2</sup>, N. Ducat<sup>2</sup>, O. Pigeon<sup>2</sup>, B. Schiffers<sup>3</sup>, B. Huyghebaert<sup>2</sup> <sup>1</sup>ISSeP; <sup>2</sup>CRA-W; <sup>3</sup>ULiège, Belgium
- P5.11 Metabolomics study for bio-nano-selenium effect on leaf components and lobular disease of plum D. Li, J.Q. Li, W.C. Lian, Y.L. Wu, C.P. Pan China Agricultural University, China
- P5.12 Metabolism of 14C-ipconazole in the rat J. O'Connor<sup>1</sup>, L. Knight<sup>1</sup>, T. Eizuka<sup>2</sup>, T. Tack<sup>3</sup> <sup>1</sup>Envigo, UK; <sup>2</sup>Kureha Corporation, Japan; <sup>3</sup>Arysta LifeScience, UK



# of scientific certainty

Risk assessment related to phytosanitary practices of farmers in Zribet el Oued and Sidi Okba, Biskra-Algeria



**CRISTAL** 

Agriculture and Logistics

• SERIALISATION

AGGREGATION

• LABELLING

complete solutions

• LINE MANAGEMENT

HARDWARE | SOFTWARE |

**SUPPLY CHAIN TRACK & TRACE** 

WORK ORDER MANAGEMENT

**TURNKEY SOLUTIONS FOR:** 

Communicating Reliable Information and STandards to

# F SERIALISATION LABELLING AUTOMATION



- P5.13 rabbit, dog and human hepatocytes V. Gaddamidi<sup>1</sup>, L. Shen<sup>2</sup> <sup>1</sup>FMC Agricultural Solutions; <sup>2</sup>Frontage Laboratories, USA
- An inter-laboratory cross validation study for the determination of T3 and T4 in rat serum samples P5.14 using LC-MS/MS <u>S. Diaram<sup>1</sup></u>, A. Peard<sup>1</sup>, J. Romaguera<sup>2</sup> <sup>1</sup>Envigo, UK; <sup>2</sup>Envigo, Spain
- P5.15 Toxicological impact from the plant protection products used in Sancti Spíritus, Cuba: Study case E. López Dávila<sup>12</sup>, M. Houbraken<sup>2</sup>, J. De Rop<sup>2</sup>, O. Romero Romero<sup>1</sup>, J. Du Laing<sup>2</sup>, P. Spanoghe<sup>2</sup> <sup>1</sup>Sancti Spíritus University, Cuba; <sup>2</sup>Ghent University, Belgium
- P5.16 PBTK modelling to refine health based guidance setting J. Baumann, F. Weysser, L. Goerlitz Bayer AG, Germany





# info@smithersviscient.com



& Modelling

Services

Endocrine Testing



**Pollinators** 

www.smithersviscient.com

# Comparative in vitro metabolism of [phenyl-14c(u)]- and [triazine-2-14c]-metsulfuron methyl in mouse, rat,

Monday	Tuesday	Wednesday	

# At Envigo, the positives are in more than just our name

- + Full integrated service provider, supporting research in life sciences
- + An extensive footprint with a global regulatory expert team
- + Proven scientific excellence and regulatory knowledge

Download our e-book:

+

'Endocrine Disruptors - The challenge of accessing the ED regulatory framework' insights.envigo.com

+

# **ENVIGO**

++++

different agro-climatic zones of India B. Saha, K. Vishwakarma, S. Rao, U.K. Shinde NACL Industries Limited, India

P7.1

- P7.2 Accumulative behavior and half-lives of six pesticides in apple orchard Q.S. An, D. Li, J. Wu, C.P. Pan China Agricultural University, China
- P7.3 Development of a harmonized protocol for measurement of foliar wash-off coefficients: First results L.H. Hand<sup>1</sup>, E. Hellpointner<sup>2</sup>, P. Volz<sup>3</sup>, A. Perry<sup>4</sup>, S. Prost<sup>5</sup>, V. Gourlay<sup>6</sup>, D. Hennecke<sup>7</sup>, M. Popescu<sup>8</sup> Ecology IME, Germany; <sup>8</sup>Agrochemex, UK
- Jasmonic acids facilitate the degradation and detoxification of herbicide isoproturon residues in wheat P7.4 crops (triticum aestivum) L.Y. Ma, H. Yang Nanjing Agricultural University, China
- P7.5 K. Bonnot<sup>1</sup>, C. Bedos<sup>1</sup>, L. Mamy<sup>1</sup>, C. Bockstaller<sup>2</sup>, E. Latrille<sup>3</sup>, D. Patureau<sup>3</sup>, V. Rossard<sup>3</sup>, R. Servien<sup>4</sup>, P. Benoit<sup>1</sup> France
- P7.6 Transport of propachlor in soil affected by Triton X-100 and dissolved organic matters N. Zhang, X.F. Yao, H. Yang Nanjing Agricultural University, China
- P7.7 wind tunnel studies C. Staffa, G. Fent, R. Kubiak Institute for AgroEcology, Germany
- P7.8 Metabolism of 14C-ipconazole in plants J. O'Connor<sup>1</sup>, <u>A. Crowe<sup>1</sup></u>, T. Eizuka<sup>2</sup>, T. Tack<sup>3</sup> <sup>1</sup>Envigo, UK; <sup>2</sup>Kureha Corporation, Japan; <sup>3</sup>Arysta LifeScience, UK
- P7.9 The degradation of crop protection products in Brazilian soils N. Baudin<sup>1,2</sup>, M. Garrod<sup>1</sup>, I. Bramke<sup>1</sup>, C. Mckillican<sup>3</sup>, G. Bending<sup>2</sup>, S. Marshall<sup>1</sup> <sup>1</sup>Syngenta Ltd.; <sup>2</sup>University of Warwick, UK; <sup>3</sup>Syngenta Crop Protection, USA
- P7.10 H.J. Kim, S.H. Lee, S.Y. Kwak, A. Sarker, S.C. Cho, H.R. Jeong, J.E. Kim Kyungpook National University, Korea
- Occurrence of pesticides in waters intended for agricultural irrigation in the lower Llobregat river basin P7.11 J. Quintana, A. de la Cal, M.R. Boleda Aigües de Barcelona, Spain

# envigo.com



# Dissipation and residue analysis of imidacloprid in okra crop (ladies' finger) under field conditions in

<sup>1</sup>Syngenta, UK; <sup>2</sup>Bayer AGy; <sup>3</sup>BASF SE, Germany; <sup>4</sup>Eurofins Agroscience Services Ltd, UK; <sup>5</sup>Eurofins Agroscience Services EcoChem GmbH; <sup>6</sup>RLP AgroScience GmbH; <sup>7</sup>Fraunhofer Institute for Molecular Biology and Applied

Prediction of pesticides emission potential to atmosphere from their molecular properties using the typol tool <sup>1</sup>INRA-AgroParisTech-Université Paris-Saclay; <sup>2</sup>Université de Lorraine; <sup>3</sup>Université de Montpellier; <sup>4</sup>InTheRes,

Aqueous deposition of volatilised lindane – A comprehensive data review of its use as internal standard in

Kinetic models for predicting the degradation rate of diamide insecticides and triazole fungicides in shallot

# Exponent

The regulatory consultancy for high-quality, creative and practical solutions.

# **Registration of Plant Protection Products in Europe**

Build the perfect package to fit your exact requirements.

- Data Interpretation and Study Summaries
- Study Monitoring
- QSAR Modelling and Analysis
- Completeness Check and Preliminary Risk Assessment
- Assessment of Potential Regulatory Outcome
- Task Force Management

For further information please contact:

# Nick Pear

**Regulatory Group** +44 (0) 1423 853203 • npear@exponent.com

Exponent is an international consultancy with offices located in the UK, Germany, Switzerland, USA, China and Hong Kong

- Pre-submission Meetings with RMS
- Classification and Labelling
- Review of Public Literature
- Human Health and Environmental Risk Assessment
- Dossier Preparation

# Monday Tuesday Wednesday Thursday Posters topic 7 **Environmental fate, transport and metabolism**

- P7.12 compared to measured environmental concentrations and environmental quality standards in Sweden G. Boström, K. Berggren, C. Gutfreund, M. Gönczi, J. Kreuger Swedish University of Agricultural Sciences, Sweden
- P7.13 J. Kreuger<sup>1</sup>, O. Jonsson<sup>1</sup>, K. Löfkvist<sup>2</sup>, T. Hansson<sup>3</sup>
- Residue and safety evaluation of fluazinam in green onions and scallions P7.14 H. Min, X. Zhu, J. Chunhong, P. Yu Beijing Academy of Agricultural and Forestry Science, China
- P7.15 Occurrence of organochlorine and organophosphorous pesticides in Pucara river basin in Bolivia M.M. Alvarez<sup>1</sup>, C. Sans<sup>2</sup>, V. Romero<sup>2</sup>, H. Antezana<sup>1</sup>, S. Mirta<sup>1</sup>, S. Castellón<sup>1</sup> de San Simón, Bolivia; <sup>4</sup>University of Barcelona, Spain
- P7.16 Levels of pesticide residues in the main and the blue Nile waters in the Sudan G.A.A. Nesser<sup>1</sup>, A.O. Abdelbagi<sup>2</sup>, M. Tagelseed<sup>1</sup>, A.S.A. Ishag<sup>2</sup>, A.M.A. Hammad<sup>2</sup> <sup>1</sup>International University of Africa; <sup>2</sup>University of Khartoum, Sudan
- Autumn determination of pesticides in Lis river, Portugal P7.17 S. Sousa<sup>1,</sup> S. Jorge<sup>2,</sup> J. Vieira<sup>2</sup>, J.G. Silva<sup>3</sup>, V. F. Domingues<sup>1</sup>, C. Delerue-Matos<sup>1</sup> <sup>1</sup>REQUIMTE/LAQV-GRAQ; <sup>2</sup>Águas do Centro Litoral; <sup>3</sup>Águas de Santo André, Portugal
- P7.18 The influence of antibiotics on the degradation and enantioselectivity of the chiral pesticide betacypermethrin in soil W. Jiang, J. Gao, P. Wang China Agricultural University, China
- P7.19 substance? P. Besse-Hoggan, C. Descarpentries, M. Youness, M. Sancelme, I. Batisson <sup>1</sup>Université Clermont Auvergne, France
- P7.20 Viticulture in the north of Italy: Development of priority list and multi-residual analytical method for plant protection products presence in groundwater R. Zambito Marsala, E. Capri, N.A. Suciu Università Cattolica del Sacro Cuore, Italy
- P7.21 Pesticide residues in rainwater from the northwest region of Uruguay: Method validation and seasonal analysis N. Besil, R. Hladki, F. Rivero, M.V. Cesio, H. Heinzen Universidad de la República, Uruguay
- P7.22 Dichlorvos behaviour in soils: Approach to leaching process P. Parlakidis<sup>1</sup>, N.J. Bustos<sup>2</sup>, A. Iriel<sup>2</sup>, A. Fernández Cirelli<sup>2</sup>, Z. Vryzas<sup>1</sup> <sup>1</sup>University of Thrace, Greece; <sup>2</sup>Universidad de Buenos Aires, Argentina
- P7.23 Analysis of organchlorine pesticides (OCPS) residues in fish from Edko lake (North Egypt) by using ecofriendly methods and their health risk implications for humans M.A. Abbassy<sup>1</sup>, M.A. Khalifa<sup>2,3</sup>, O.A. Omar<sup>3</sup>, E. Noreldin<sup>1</sup> <sup>1</sup>Damanhour University; <sup>2</sup>Kaferelsheikh University, Egypt; <sup>3</sup>Ministry of Health, Kuwait



Predicted environmental concentrations and predicted no effect concentrations from EFSA conclusions

# Monitoring of pesticide losses to surface water from commercial greenhouse areas in Sweden 2017-2018

<sup>1</sup>Swedish University of Agricultural Sciences; <sup>2</sup>RISE Research Institutes of Sweden; <sup>3</sup>Grön Kompetens AB, Sweden

# <sup>1</sup>Centro de Aguas y Saneamiento Ambiental; <sup>2</sup>Unidad de Limnología Recursos Acuáticos; <sup>3</sup>Universidad Mayor

# Do the agricultural adjuvants have any impact on the microbial toxicity and biodegradation of the active





We at Globachem are passionate about crop protection. We have the ambition to become a innovative key player in the world crop protection market. To achieve this we are looking for collaborations with people, companies and institutes that are as passionate and innovative as we are.

Interested? Visit us at booth 44 or at www.globachem.com

Monday	Tuesday	Wednesday	

Posters topic 7

P7.24 Application of the principles of green chemistry in residues analysis of pesticide chemical in water: 20 years experiences in Egypt M.A. Khalifa, M.A. Abbassy<sup>2</sup>, A.H. Masoud<sup>1</sup> <sup>1</sup>Kaferelsheikh University; <sup>2</sup>Damanhour University, Egypt

- P7.25 Synthesis of eight stereoisomers of zeta cypermethrin and development of a chiral analysis method for use during a subsequent OECD308 study M.D. Swift<sup>1</sup>, T. Hawkins<sup>1</sup>, L. Kong<sup>2</sup> <sup>1</sup>Pharmaron UK Ltd, UK; <sup>2</sup>FMC Corporation, USA
- P7.26 A SFC-MS based analytical strategy for stereoisomer analysis in environmental fate and metabolism studies K. Lynn, X. Zhou, J. Godbey, T. Trullinger Corteva AgriScience<sup>™</sup>, USA
- P7.27 Target screening of pesticides in agro-food industry sewage sludge by liquid chromatography tandem mass spectrometry N.C. Maragou, G. Balayiannis, E. Karasali, K. Machera, E. Markellou, I. Georgaki, E. Karanasios, C. Anagnostopoulos, K. Liapis Benaki Phytopathological Institute, Greece
- P7.28 SPE-UHPLC/DAD method for the determination of nine sulphonylurea herbicides in water D.B. Sunjka, S.D. Lazic University of Novi Sad, Serbia
- P7.29 Photodegradation of strobilurin fungicide mandestrobin in aqueous media T. Adachi, Y. Suzuki, T. Fujisawa Sumitomo Chemical Co., Japan
- P7.30 Aerobic mineralization What is it good for? D. Shaw, R. Unsworth Envigo, UK
- P7.31 Catabolism-driven removal two pesticides in growth medium facilitated by genetically improved paddy plants H. Yang, X.N. Su, J.J. Zhang Nanjing Agricultural University, China
- P7.32 Molecular identification of indigenous bacteria isolated from pesticides heavily contaminated soils A.O. Abdelbagi<sup>1</sup>, A.S.A. Ishag<sup>1</sup>, A.M.A. Hammad<sup>1</sup>, E.A.E. Elsheikh<sup>2</sup>, I.A. Mohammed, J.-H. Hur<sup>3</sup>
- P7.33 A new scale-up laboratory test system to simulate degradation in soil under sunlight conditions J. Hassink, J. Buda, S. Burdy-Noe, S. Lange, T. Schmidt BASF SE, Germany
- P7.34 Behavior of the chiral herbicide imazamox in soils: Enantiomer composition differentiates between biodegradation and photodegradation I.J. Buerge, R. Kasteel, T. Poiger Agroscope, Switzerland
- P7.35 Reducing volatilization of Prosulfocarb by considering forcing parameters investigated with a laboratory test system D.S. Wallace, G. Fent, R. Kubiak RLP AgroScience GmbH, Germany



# **Environmental fate, transport and metabolism**

<sup>1</sup>University of Khartoum, Sudan; <sup>2</sup>University of Sharjah, UAE; <sup>3</sup>Kangwon National University, Republic of Korea

Monday Tuesday

Wednesday

# Posters topic 7 **Environmental fate, transport and metabolism**

- P7.37 Characterization of myrigalone photoproducts and evaluation of their antigerminative properties A. Khaled<sup>1</sup>, M. Sleiman<sup>1</sup>, Y. Arbid<sup>1</sup>, C. Sac<sup>2</sup>, A. Corson<sup>2</sup>, C. Bertrand<sup>3</sup>, P. Goupil<sup>2</sup>, <u>C. Richard<sup>1</sup></u> <sup>1</sup>Université Clermont Auvergne; <sup>2</sup>UMR 547-UBP/INRA PIAF; <sup>3</sup>Université of Perpignan Via Domitia, France
- P7.38 Field soil degradation design to eliminate the influence of surface processes on pendimethalin Sand cover versus substance incorporation H. Bayer, J. Hassink, B. Jene, T. Richter, M. Roos-Majewsky BASF SE, Germany
- P7.39 Bioavailability of herbicides: Their role in the fate, efficacy, and crop-safety R. Kanissery, C. McAvoy University of Florida, USA
- P7.40 Bioconcentration factor-based soil management guideline through uptake pattern of pesticide by Korean cabbage S.Y. Kwak, S.H. Lee, A. Sarker, S.C. Cho, H.J. Kim, H.R. Jeong, J.E. Kim Kyungpook National University, Korea
- P7.41 Impact of pesticide pollution in rivers of the Pucara basin in Cochabamba (Bolivia) on benthic macroinvertebrates M.M. Álvarez<sup>1</sup>, M. Rivero<sup>2</sup>, H. Antezana<sup>1</sup>, S. Castellón<sup>3</sup>, C. Sans<sup>4</sup> <sup>1</sup>Centro de Aquas y Saneamiento Ambiental (CASA); <sup>2</sup>Unidad de Limnología Recursos Acuáticos (ULRA);
- P7.42 Multidimensional modelling of reactive transport of plant protection products underneath vegetated filter strips R. Zolfaghari, K. Hammel, R. Sur, D. Schaefer
- Bayer AG, Germany P7.43 Vegetative Filter Strip (VFS) modeling in the United States A. Ritter<sup>1</sup>, D. Desmarteau<sup>1</sup>, P. Hendley<sup>2</sup>
- P7.44 Using on-farm biopurification systems for the depuration of pesticide-contaminated effluents from agrofood industries C. Papazlatani, P. Karas, D.G. Karpouzas University of Thessaly, Greece

P7.45 The use of constructed wetlands and filters for removal of pyraclostrobin from agricultural wastewater G.D. Gikas<sup>1</sup>, J. Karametos<sup>1</sup>, Z. Vryzas<sup>1</sup>, V.A. Tsihrintzis<sup>2</sup> <sup>1</sup>Democritus University of Thrace; <sup>2</sup>National Technical University of Athens, Greece

- P7.46 Modelling pesticides leaching in cropping systems: Effect of uncertainties in climate, agricultural practices, soil and pesticide properties S.K. Lammoglia<sup>1,2</sup>, F. Brun<sup>3</sup>, T. Quemar<sup>3</sup>, J. Moeys<sup>4,5</sup>, E. Barriuso<sup>1</sup>, B. Gabrielle<sup>1</sup>, L. Mamy<sup>1</sup> Agricultural Sciences; <sup>5</sup>Swedish Chemicals Agency, Sweden
- P7.47 Efam: Automated modeling software for environmental risk assessment R. Juraske, P.P. Lenhardt, W. Reiher, T. Hauck knoell Germany GmbH, Germany

# NOACK LABORATORIEN





# **CONTRACT RESEARCH ORGANISATION** & REGULATORY CONSULTANCY

**REGULATORY ADVICE & PROJECT MANAGEMENT** Staphyt

www.noack-lab.de



# **COME AND MEET OUR EXPERTS ON STAND 67**

www.staphyt.com

contact@staphyt.com

<sup>3</sup>Universidad Mayor de San Simón, Bolivia; <sup>4</sup>University of Barcelona, Spain

<sup>1</sup>Waterborne Environmental Inc., USA; <sup>2</sup>Phasera Ltd, UK

<sup>1</sup>ECOSYS, INRA-AgroParisTech-Université Paris-Saclay; <sup>2</sup>CIRAD, SYSTEM; <sup>3</sup>ACTA, France; <sup>4</sup>Swedish University of



# This Is Why We Do WHAT WE DO...



Dr. Imme Gerke lobal Regulatory Strategist DRG.eu

Agricultural production and trade depend on the availability of plant protection products to meet buyers' expectations in terms of quality and quantity, and to meet international import regulations in the prevention of invasive alien species (IAS). The development of new technologies for the detection of chemical residues or IAS triggers an increasing number of non-tariff trade-barriers.

For decades, governments and industries are aware of this increase and have demanded that the authorization and availability of plant protection products be globally harmonized. However, in spite of all harmonization efforts, we still have millions of different approvals worldwide.

# "With the lack of harmonization. the

only way to grow crops that can be traded is to provide access to information to farmers, processors, exporters, manufacturers and distributors of plant protection products, and to governmental authorities. "

The only global and comprehensive source of this kind of information is the *Homologa*<sup>™</sup> Database.



The Global Crop Protection Database Homologa TM is updated constantly.





- Existing- and future Maximum Residue Levels
- (MRLs).
- Detailed label information by crop
- Individual alert e-mails inform automatically about new or modified registrations/MRLs.
- Access to product URL in many countries



At IDRG.eu, we use Homologa<sup>™</sup> to support (i) farmers in finding suitable products for their crops and pest problems, (ii) give them the possibility to demand harmonization for specific crop/pest/product/country combinations, (iii) to support processors in purchasing crops that can be traded without the risk of rejection at the various points of entry, (iv) companies in identifying new markets and partners in other countries, (v) manufacturers in generating data packages for the approval of their products, (vi) governments in reaching regulatory decisions, (vii) international organizations in resolving trade issues, (viii) taskforces in the prevention of IAS, and (ix) regulators in advancing harmonization efforts.

# www.homologa.com



Agrobase-Logigram SARL http://www.agrobase-logigram.com

homologa-info@agrobase-logigram.com Phone:+33 (0)4 50 35 07 19

	Env	ironm	Post ental fate,	
Monday	Tuesday		Wednesday	

- P7.48 Pesticide use data for environmental exposure and risk assessment A. Bolekhan<sup>1</sup>, K. Szegedi<sup>2</sup>, M.A. Thomas<sup>3</sup>, <u>B. Jene<sup>2</sup></u> <sup>1</sup>Bayer AG; <sup>2</sup>BASF SE, Germany, <sup>3</sup>Bayer U.S., USA
- P7.49 Developing a MACRO meta-model for Swedish drinking water abstraction zones S. Reichenberger<sup>1</sup>, M. Gönczi<sup>2</sup>, N. Kehrein<sup>1</sup>, S. Multsch<sup>1</sup>, N.J. Jarvis<sup>2</sup>, <u>J. Kreuger<sup>2</sup></u> <sup>1</sup>knoell Germany GmbH, Germany; <sup>2</sup>Swedish Agricultural University, Sweden
- P7.50 Are landscape exposure models any good? G.O. Hughes, J. Carnall Cambridge Environmental Assessments, UK









- The effects of pesticide residues on natural enemies (mallada basalis and eocanthecona furcellata) in P81 strawberry pest management C.C. Yu, H.P. Wang, J.H. Yen National Taiwan University, Taiwan
- **P8.2** G. Dean. D.A. Howes Envigo, UK
- P8.3 Semi-field study for the honey bee (apis mellifera) using a micro-colony system C. Jenkins, K. Barrett, M. Allan, R. Dean Envigo, UK
- P8.4 Use of MALDI imaging to assess the distribution of pesticides in the honeybee A. McEwen<sup>1</sup>, S. Wilkins<sup>1</sup>, E. Wright<sup>1</sup>, A. Charlton<sup>1</sup>, M. Clench<sup>2</sup>, J. Lancova<sup>2</sup> <sup>1</sup>Fera Science Ltd.; <sup>2</sup>Sheffield Hallam University, UK
- The joint effects of pyrethroids Fenvalerate and four other fungicides on Hyalella azteca **P8.6** Y.J. Chen, Y.T. Chao, J.H. Yen National Taiwan University, Taiwan
- **P8.7** Toxic effects of pesticide mixed application on non-target aquatic organisms L.Y. Yang, P.C. Chiang, J.H. Yen National Taiwan University, Taiwan
- **P8.8** species (amphipod and chironomid) C.K. Tyan, J.H. Yen National Taiwan University, Taiwan
- Volatile chemical pesticide Guideline for earthworm acute toxicity test P8.9 L. Mao, L. Zhang, Y. Zhang, H. Yu, H. Jiang Chinese Academy of Agricultural Sciences, China
- P8.10 H. Li, F. Zhao, F. Cao, M. Teng, Y. Yang, L. Qiu China Agricultural University, China
- P8.11 Plant protection products used in Sancti Spíritus, Cuba: Ecotoxic impact E. López Dávila<sup>1,2</sup>, J. De Rop<sup>2</sup>, M. Houbraken<sup>2</sup>, O. Romero Romero<sup>1</sup>, J. Du Laing<sup>2</sup>, P. Spanoghe<sup>2</sup> <sup>1</sup>Sancti Spíritus University, Cuba; <sup>2</sup>Ghent University, Belgium
- P8.12 Testing the potential non-target effect of water extracts of invasive alien plants leaves on pollinators and predators in the field with lacy phacelia (Phacelia tanacetifolia Benth.) T. Bohinc, F. Vučajnk, S. Trdan University of Ljubljana, Slovenia
- P8.13 tool for ecological risk assessment K. Vlaeminck<sup>1</sup>, K.P.J. Viaene<sup>2</sup>, P. Van Sprang<sup>2</sup>, K.A.C. De Schamphelaere<sup>1</sup> <sup>1</sup>Ghent University (UGent); <sup>2</sup>Arche Consulting, Belgium
- P8.14 Population modelling to assess the effects of a copper pesticide on rainbow trout (Oncorhynchus mykiss) S.D. Janssen<sup>1</sup>, K.P.J. Viaene<sup>2</sup>, P. Van Sprang<sup>2</sup>, K.A.C. De Schamphelaere<sup>1</sup> <sup>1</sup>Ghent University; <sup>2</sup>Arche Consulting, Belgium

# AGRICULTURAL AND FOOD CHEMISTRY

The most cited journal in 3 categories: Food Science & Technology, Applied Chemistry, and Multidisciplinary Agriculture

EDITOR-IN-CHIEF

Thomas F. Hofmann, Technische Universität München





READ THE LATEST ISSUE AND SUBMIT YOUR RESEARCH

pubs.acs.org/jafc



# Water treatment processes and the potential for substances of concern to arise from crop production products

Lethal effect of insecticide imidacloprid, chlorpyrifos and azoxystrobin on two sediment ecological indicator

# Mitochondrial dysfunction-based cardiotoxicity and neurotoxicity induced by pyraclostrobin in zebrafish larvae

# Mechanistic effect models to predict pesticide stress on Daphnia magna populations – An intermediate tier

Monday Tuesday Wednesday



# 13<sup>th</sup> EUROPEAN PESTICIDE RESIDUE WORKSHOP

PESTICIDES IN FOOD AND DRINK 11-15 May 2020 • Granada, Spain



# www.eprw2020.com

11111

111111



UNIVERSIDAD DE GRANADA universidae DE ALMERIA

- In-vitro metabolism studies using fish hepatocytes P8.15 M. Kohler, A. Lagojda, A. Stork, M. Lamshoeft Bayer AG, Germany P8.16 Impacts of seven insecticides on three natural enemies in the northeastern region of Thailand R. Wanna, P. Khangkhun, M. Wongsawas, W. Kaewduangta Mahasarakham University, Thailand
- P8.17 Mitochondrial dysfunction, apoptosis and transcriptomic alterations induced by strobilurins in zebrafish early life stages J. Jiang, S. Wu, L. Lv, X. Liu, X. An, X. Zhao, Q. Wang Zhejiang Academy of Agricultural Sciences, China
- P8.20 Optimizing laboratory testing for bee species: A comparative sensitivity analysis for honey bees and bumblebees

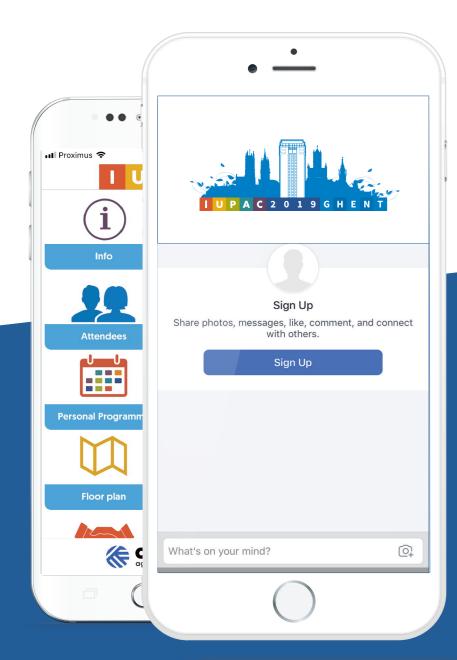
<u>A. Dinter</u><sup>1</sup>, J. Lückmann<sup>2</sup>, R. Becker<sup>3</sup>, M. Miles<sup>4</sup>, E. Pilling<sup>5</sup>, N. Ruddle<sup>6</sup>, A. Sharples<sup>7</sup>, L. Oger<sup>8</sup> <sup>1</sup>FMC Agricultural Solutions; <sup>2</sup>RIFCON GmbH; <sup>3</sup>BASF SE, Germany; <sup>4</sup>Bayer AG; <sup>5</sup>Dow AgroSciences; <sup>6</sup>Syngenta; <sup>7</sup>FMC Agricultural Solutions, UK; <sup>8</sup>ECPA, Belgium

- P8.21 Estimating neonicotinoid residues in pollinator-attractive habitat by LC-MS/MS M.J. Hall, V. Dang, G. Zhang, M. O'Neal, S.P. Bradbury, J.R. Coats Iowa State University, USA
- P8.22 A new framework for the assessment of the soil microbial toxicity of pesticides D.G. Karpouzas University of Thessaly, Greece
- P8.23 Graphical user interface for applying the plant community model IBC-grass in ecological risk assessments C. Mihan<sup>1</sup>, J. Reeg<sup>2</sup>, S. Heine<sup>1</sup>, S. McGee<sup>3</sup>, T.G. Preuss<sup>1</sup>, F. Jeltsch<sup>2</sup> <sup>1</sup>Bayer AG; <sup>2</sup>University of Potsdam, Germany; <sup>3</sup>Bayer CropScience LP, USA
- P8.24 Single and joint toxic effects of Isoproturon and cadmium on algae Chlamydomonas reinhardtii J. Liu, C.B. Qiu, H. Yang Nanjing Agricultural University, China
- P8.25 Supervised field trials within the agrochemical registration process: Conduct of crop field trials and generation of representative field specimens E. Ale<sup>1</sup>, J. Bartolomé<sup>1</sup>, J. Andrés<sup>1</sup>, H. Harper<sup>2</sup> <sup>1</sup>Envigo CRS Ltd., Spain; <sup>2</sup>Envigo CRS Ltd., UK
- P8.26 Residue determination of florasulam and pyroxsulam in wheat in field trial Y. Bi, <u>L. Han</u>, S. Song, W. Yao China Agricultural University, China



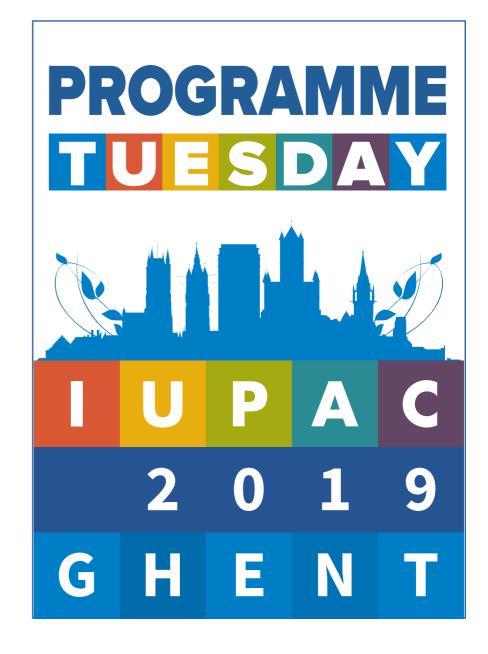








**IUPAC 2019** 



# Programme at a Glance - Tuesday, May 21

		Auditorium	Van Rysselberghe Room	Jan Van Eyck Room	Hubert Van Eyck Room	Van der Goes Room
08.00	Poster hang-up Presentations upload		_			
08.30		Plenary Talks M. Höfte P. Marrone				
09.40		1	Со	ffee		
10.20	Parallel Sessions		3.2 New chemistries targeting disease control (1/2)	2.3 Microbial pesticides (1/2)	7.2 Pesticides mixtures and interactions with other contaminants: environmental fate proces- ses, exposure and risk assessment	2.6 Weeds, pests, diseases: Monitoring and management
12.20/12.40			Lu	nch		
12.45-14.15	Lunch Workshops			Constraints & challenges of the develop- ment of novel bio-pesticides		Biological control, beyond the point of no return
13.00	Poster Sessions		Poster Prese	ntations of Topic	cs 2, 6 and 9	
14.15					Poster Award Ceremony (Topics 1, 5, 7 & 8)	
14.30-16.30	Parallel Sessions		3.2 New chemistries targeting disease control (2/2)	2.3 Microbial pesticides (2/2)	7.8 Bioavailability & bioaccu- mulation of pesticides: their role in the environ- mental fate of pesticides	<ul><li>2.4</li><li>Biocontrol agents and</li><li>2.8</li><li>Technologies based on insect behavior</li></ul>
16.30		1	Со	ffee		
17.00-18.00	Debate	Farming in 10, 20 and 30 years				

Bauwens Room	Baekeland Room I	Baekeland Room II	Baekel Room
		Co	ffee
4.2 Improvement of formulation efficiency (1/2)	6.1 International trends in food production, food trade, food fraud, food authenticity and novel foods	9.4 Nematicides: Mode of action and resistance	7.7 Contribution abiotic pro- ses (sorpting volatilization photolysis hydrolysis pesticide of pation and metabolision
		Lu	nch
			What in the world is IUPAC, really?
	Post	er Presentation	s of Topics
4.3 Improvement of formulation efficiency (2/2)	6.3 Modern analytical techniques to detect and control residues in food and feed (2/3)	9.5 Genome based technologies in MoA and resistance research	

# Ghislain Room I

Ghislain Room II

1.3 21st century stewardship – Exploring the impact of digitalization and precision agriculture

5.3 Mechanisms of toxicity, criteria setting and harmonized approaches

6 and 9

1.4 New paradigms in regulatory decision making

Monday	Tuesday	Wednesday	Thursday	Friday	Posters	Monday	Tuesday	Wednesday	
	Auditorium						Van Rysselberghe		

# **Plenary Talks** 08.30 Cyclic lipopeptides: versatile molecules for plant disease control Monica Höfte, Ghent University, Belgium History, status and potential of natural products for pest management and plant health? 09.05 Pam Marrone, Marrone Bio Innovations Inc., USA 09.40-10.20 Coffee Break **Parallel Sessions** 10.20-12.20/40 Lunch, Lunch Workshops & Poster Session 12.20-14.30 14.30-16.30 **Parallel Sessions** Coffee Break 16.30-17.00 17.00-18.00 Debate Farming in 10, 20 and 30 years Eduardo Cuoco, IFOAM Europe, Belgium Rajan Gajaria, Corteva Agriscience, USA

Jannes Maes, CEJA, Belgium Danny Van Quaethem, Econopolis, Belgium



	U-BASF W create chemicary	3.2 New chemistries targeting disease control ( Chairs: Peter Maienfisch, Syngenta Crop Protection A Najam Shakil, Indian Agricultural Research Ins
10.20	3.2.1	<b>Discovery of ADEPIDYNTM</b> C. Lamberth, Syngenta Crop Protection AG, Switzerlar
10.40	3.2.2	Isoflucypram – A new succinate dehydrogenase inh performance M. Maue, Bayer AG, Germany
11.00	3.2.3	<b>Discovery of inpyrfluxam</b> S. Kiguchi, Sumitomo Chemical Co., Japan
11.20	3.2.4	Isoflucypram – An innovative disease management performance A. Goertz, Bayer AG, Germany
11.40	3.2.5	Isofetamid: Discovery and optimization of a novel fu T. Yoneda, Ishihara Sangyo Kaisha Ltd, Japan
12.00	3.2.6	<b>Discovery of a new class of highly active fungicides</b> C. Winter, BASF SE, Germany
12.20-14	4.30	Lunch, Lunch Workshops and Poster Session
	E = BASF We water of animaty	3.2 New chemistries targeting disease control ( Chairs: Changling Liu, Sinochem International Corpor Clemens Lamberth, Syngenta Crop Protection
14.30		3.2 New chemistries targeting disease control ( Chairs: Changling Liu, Sinochem International Corpor
14.30 14.50	D - BASF We can density	<ul> <li>3.2 New chemistries targeting disease control ( Chairs: Changling Liu, Sinochem International Corpor Clemens Lamberth, Syngenta Crop Protection</li> <li>Discovery and biological profile of metyltetraprole</li> </ul>
	<b>B-BASF</b> 3.2.7	<ul> <li>3.2 New chemistries targeting disease control ( Chairs: Changling Liu, Sinochem International Corpor Clemens Lamberth, Syngenta Crop Protection</li> <li>Discovery and biological profile of metyltetraprole Y. Matsuzaki, Sumitomo Chemical Co, Japan</li> <li>Discovery of florylpicoxamid, a new picolinamide for</li> </ul>
14.50	3.2.7 3.2.8	<ul> <li>3.2 New chemistries targeting disease control ( Chairs: Changling Liu, Sinochem International Corpor Clemens Lamberth, Syngenta Crop Protection</li> <li>Discovery and biological profile of metyltetraprole Y. Matsuzaki, Sumitomo Chemical Co, Japan</li> <li>Discovery of florylpicoxamid, a new picolinamide for K.G. Meyer, Corteva Agriscience, USA</li> <li>Revysol®: The new broad-spectrum fungicide of BAS</li> </ul>

- 15.50 **3.2.11 Azole carbinols as fungicides** J.K. Long, FMC Stine Research Center, USA
- 16.10 3.2.12 Discovery of pyruvate kinase as a fungicide target by DARTS B. Zhao, Nankai University, China

16.30-17.00

**Coffee Break** 



# control (I)

otection AG, Switzerland & search Institute, India

Switzerland

enase inhibitor with unique structural features and

agement tool with an unprecedented biological

novel fungicide an

ingicides to control rust diseases

# control (II)

al Corporation, China & Protection AG, Switzerland

amide for disease control

de of BASF SE

pes of oxysterol-binding protein inhibitors



	Monday	Tuesday Wednesday Jan Van Eyck	Thursday	Friday	Poste	ers		Monday	Tuesday Hubert Van Eyck	Wednesday	
10.2		2.3 Microbial pesticides (I) Chair: Stephen Duke, USDA, USA Myxomycetes: Bizarre organisms with a	astonishing antagonistic	activity again:	©) st plant-pathog	ISCP Recented		LINIGO	7.2 Pesticides mixtures processes, exposure an Chairs: Jay Gan, Universit	nd risk asses	sment
		<b>fungi and bacteria</b> M. Lemmens, University of Natural Reso	urces and Life Sciences, A	Austria			10.20		<b>Pesticides and emerging</b> J. Gan, University of Calif		; in coa
10.4 11.0		Screening of Pseudomonas sp. strains A. Bricout, Université Lille, France Breakdown of resistance to Plasmopar	a viticola, causal agent o			and	10.40	7.2.2	Effect of phosphate fertil Colombian soils M.Y. Dotor Robayo, Unive	zers applicati	
		potential of pseudomonas cyclic lipope L. Heyman, Ghent University, Belgium	ptides in its biocontrol				11.00		Impact of Cu (II) on herbi P. Besse-Hoggan, Univer		
11.2	0 2.3.4	Diversity and biological activity of cycli rhizosphere in acid sulphate soils in Vie V.B. Lam, Ghent University, Belgium		Bacillus spp is	solated from th	ie rice	11.20		Nanometal oxide fungicio G. Cobb, Baylor Universit		rice (Or
11.4	2.3.5	<b>Binding proteins in fungal peptide Des</b> J. Wang, South China Agricultural Unive		l2 cell			11.40		Discussion		
12.0	0 2.3.6	<b>Bacillus firmus I-1582 protects plants f</b> A.S.S. Schleker, University of Bonn, Gerr		ii			14.15		Poster Award Ceremon Announcement of the pos		ners in t
12.2	0 2.3.7	<b>Enhanced microbial pesticides via rain</b> C. Woelfle-Gupta, The Dow Chemical Co	fastness and UV resistan	ice improveme	ent		12.00	11.20		and Deptor Co	
12.4	0-14.30	Lunch, Lunch Workshops and Poster Se	ssion				12.00	-14.30	Lunch, Lunch Workshops	and Poster Se	SSION
12.4	5-14.15	Lunch Workshop Constraints and challenges of the of Organisers: Philippe Jacques (ULiège-G (ULille, project BIOPROD), Jenny Neuker Nova, project BIOSENS), Essaïd Ait Bark	embloux Agro-BioTech, p mans (PCG, project BIOP	roject BIOCOM ROTECT), Sylv	IGEST), Franço				7.8 Bioavailability and of pesticides Chairs: Zisis Vryzas, Dem República, Urugua	ocritus Univer	
	syngenta.	2.3 Microbial pesticides (II)	a (one mo, project brood		(P)	ISC P	14.30		<b>Pesticide accumulation in</b> <b>the environment</b> H. Heinzen, Universidad c	-	-
14.3		Chair: Emilia Markellou, Benaki Phytopa Bioact DC (Purpureocillium lilacinum si management in vegetable crops			ntegrated nem	1	15.10		<b>Comparison of EPA and E</b> <b>degradation assessment</b> K. Malekani, Smithers Viso	-	e on ch:
14.5	0 2.3.9	M. Tarver, Bayer AG, Germany <b>Methods evaluation to differentiate pre</b> T. De Bock, Ghent University, Belgium	esumptive B. cereus on le	ettuce			15.30		<b>Setting criteria for trigge</b> K.J. Lynn, Corteva Agriscie		otion st
15.10	0 2.3.10	<b>Evaluation and identification of suitabl</b> D. Zweifel, Dow Europe GmbH, Austria	e co-formulants for biope	esticides			15.50		<b>Development of a small s</b> K.J. Lynn, Corteva Agriscie	-	degrad
15.3	0 2.3.11	Velifer®: BASF's new bioinsecticide B. Liebmann, BASF SE, Germany					16.10		Discussion Coffee Break		
15.5	0 2.3.12	<b>Trichoderma atroviride strain SC1 cont</b> A. Vermaete, BI-PA nv, Belgium	rols Botrytis in tomatoes								
16.10	0 2.3.13	Efficacy of indigenous entomopathoge (Meyrick) A.M.A. Hammad, University of Khartoum		of the tomato I	leafminer Tuta	absoluta					
16 3	0-17.00	Coffee Break	) 1 9 G H								

# with other contaminants: environmental fate nt & George Cobb, Baylor University, USA

# oastal sediments: Wastewater discharge as a source

# n the mineralization and mobility of glyphosate in three

Colombia, Colombia

te in various soils ergne, France

(Oryza sativa japonica) growth and arsenic uptake

in topics 1, 5, 7 & 8.

# of pesticides: Their role in the environmental fate

of Thrace, Greece & Horatio Heinzen, Universidad de la

# isms and their role as sentinels of pesticide residues in

iguay

characterization of non-extractable residues (NER) in

studies to support discovery projects

radation assay for discovery herbicide screening



	Monday	Tuesday V Van der Goes	Wednesday	Thursday	Friday		Posters			Monday	Tuesday Bauwens	Wednesday	
	syngenta.	<b>2.6 Weeds, pests, disease</b> <b>Chair:</b> Raf De Vis, Proefstatio	· · · · · · · · · · · · · · · · · · ·		t			C P motoreset			<b>4.2 Improvement of fo</b> <b>Chair:</b> Christian Popp, Syn		
10.20	0 2.6.1	<b>Fusarium wilt threatens Bel</b> J. Claerbout, Ghent Universit		uction					10.20	4.2.1	Influence of leaf surface P. Taylor, Syngenta, UK	structure on w	etting
10.40	2.6.2	Hyperspectral classification in vegetable crops M. Lauwers, Ghent University	-	ge and morpholo	gically similar v	veeds	and toxic we	eds	10.40		Image analysis of water- O.D. Huet, Queensland U	-	-
11.00	2.6.3	Simulating the population g of Anoplophora spp. in Belg J. Bonte, Flanders Research	gium		rol measures o	n pote	ntial outbrea	ks	11.00	4.2.3	<b>Spray characterization to</b> H. Jeon, Corteva Agriscie		
11.20	2.6.4	Focus on biological prepara detection and real-time mor	ation of SPR sense nitoring of pathog	ors - Project BIOS Jens and biocontr	ol agents in ag				11.20		Interaction of adjuvants I.S.N. Dario, São Paulo Sta	ite University, E	Brazil
11.40	2.6.5	C. Dekuijper, Haute Ecole Pro Comparison of different fun and Cercospora beticola spo	ngicide application		-	eaf spo	t developme	nt	11.40		Drying of agrochemical of adjuvant C. Bain, Durham Universit	-	del su
12.0	0 2.6.6	F. Imbusch, Institute of Sugar Thermal responses of three	r Beet Research, G mealybug pests	-	ops in Flanders				12.00	-14.30	Lunch, Lunch Workshops	and Poster Ses	sion
12.20	0-14.30	L. Golsteyn, Ghent University Lunch, Lunch Workshops and	-						sasou		4.3 Improvement of fo Chair: Per Kudsk, Aarhus		
12.4	5-14.15	Lunch Workshop Biological control, beyond Organisers: Sarah Van Bener	eden, Soraya Franç		Bruyne, Rob Moe	erkens,	, Felix Wäcke	rs	14.30		<b>Product optimization – M</b> <b>development</b> M. Bratz, BASF SE, Germa		e ingre
		(Biobest Group, Westerlo, Be	elgium)						14.50	4.3.2	<b>A novel formulation cond</b> E. Hilz, Bayer AG, Germar	• •	0
		2.4 Biocontrol agents and Chair: Jozef Vanden Broeck,	, KU Leuven, Belgi	um			I S CROPHOT	стре	15.10		Dow silicone antifoams a ease of use E. Raynaud, Dow Silicone		ers, adj
14.30	) 2.4.1	Entomopathogenic nematod K. Gheysens, Inagro vzw, Bel	lgium						15.30		Foliar spray quality – Do	not overlook t	-
14.50	) 2.4.2	The potential of the ant crer thrips, Frankliniella occident C. Noppe, Ghent University, E	Italis	llaris as biologica	l control agent	of the	western flow	ver	15.50	4.3.5	A. Buchholz, Syngenta Cr Novel benign and sustain R. Haensel and C. Riedl, E	nable adjuvant	delive
15.10	2.4.3	Innovative tools to improve feeding device based on mid T. Goelen, KU Leuven, Belgiu	icrobial infochemi		opment of a pa	rasitoi	d attracting		16.10		Development of optimal techniques M.P. Tate, The Dow Chem	solvent, surfac	tant p
15.30	) 2.8.1	Nanofibers contributing to in vectors B.C. De Jorge, Julius Kühn-In	-	nd-pull strategies	for control of f	ruit tre	ee phytoplasi	na	16.30		Simulating droplet impaction of the second s	tion outcomes	s: Com
15.5	) <mark>2.8.2</mark>	Seasonal changes in choice (SWD), and its impact on 'At T. Beliën, pcfruit, Belgium			iour of Spotted	Wing	Drosophila		16.30	-17.00	Coffee Break		
16.10	2.4.4	<b>Biological control of aphids</b> A. De Roissart, University Col		um									
16.30	)-17.00	Coffee Break											



Friday

Posters

ncy (l) tion, Switzerland

ng and droplet impaction

pacting on plant leaf surfaces logy, Australia

ide performance

volume on fungicide efficiency in irrigated rice

surfaces: co-localisation of active ingredient and



gredient and product properties in formulation

adjuvants used to enhance actives effectiveness and

mpact on biological efficacy! zerland

ivery systems for agrochemicals and biosolutions G, Germany

packages for emulsion stability using high throughput

omparison with experimental data nts Ltd, New Zealand

	Monday	Tuesday Baekeland I	Wednesday	Thursday	Friday		Posters		Monday	Tuesday Baekeland II	Wednesday	
		6.1 International trends novel foods Chairs: Liesbeth Jacxsens					2		BAYER R	9.4 Nematicides: Moc Chairs: Wim Wesemael,		
10.20	6.1.1	<b>New challenges in food s</b> P. Luning, Wageningen Un	afety management	t across agro-food (				10.20	9.4.1	Serotonin signalling in J L. Holden-Dye, Universit	•	
10.40	6.1.2	EU Knowledge Centre for harmonise tools	-		platform to co	ordinat	e actions and	11.00		<b>Investigating the metab</b> E. Feist, University of So	uthampton, UK	
11.00	612	A. Maquet, European Com			holonoina			11.20	9.4.3	Nematicidal or nematis M. Rist, Bayer AG, Germa		n
11.00	6.1.3	<b>Countering (organic) frau</b> G. Hermann, Organic Serv	vices, Germany		i balancing			11.40	9.4.4	<b>Nematode acetylcholin</b> C.R. Wong, Iowa State U	-	۶d
11.20	6.1.4	Low residue cropping in le S. Pollet, Inagro, Belgium	ettuce, cucumber a	and leek				12.00	-14.30	Lunch, Lunch Workshops	and Poster Session	n
11.40 12.00	6.1.5	The use of stable isotope from almeria farms J. M. Moreno-Rojas, Andal Testing strategies for orga (N15/14)	lusian Institute of A	gricultural and Fishe	eries Research a	and Tra	ining, Spain		BAYER BAYER E R	9.5 Genome based te Chairs: Thomas Van Lee Andrew Crossth		ers
12.20	14.20	P. Rinke, SGF International	-					14.30	9.5.1	<b>A Retrospective on Moo</b> F.G. Earley, Syngenta, Ul	-	)S
12.20-	PRIMORIS	<ul><li>6.3 Modern analytical t</li><li>Chairs: Veronica Cesio, G</li></ul>	techniques to det			od and	feed (II)	15.10	9.5.2	High resolution QTL ma acaricides in Tetranychu S. Snoeck, Ghent Univer	<b>us urticae</b> sity, Belgium	
14.30	6.3.7	Assessment of exposure t urine H. Mol, RIKILT – Wagening				their bi	omarkers in 24h	15.30	9.5.3	<b>Two case studies on a c</b> <b>binding: Why Prothioco</b> M.E. Beck, Bayer AG, Ge	nazole is not an azo	
15.10	6.3.8	Wide-scope pesticide resi M.R. Repetti, Universidad I	idues and contami	nants in cereal-bas		ulas		15.50	9.5.4	A computational predic B. Inbal, agPlenus Ltd., Is	srael	
15.25	6.3.9	Novel sample preparation strawberries, using GC-FF	PD and confirmation	on by GC-MS and G	C-MS/MS	rus pes	ticides in	16.10	9.5.5	Plant Resistance-Based Z. Fan, Nankai University	-	a
15.40	6.3.10	V.C. Fernandes, Instituto S <b>The Radiokitchen – Tracir</b> <b>Processing</b> B. Göckener, Fraunhofer Ir	ng Radiolabeled Pe	esticides to Investig	ate their Fate	-		16.30	-17.00	Coffee Break		
15.55	6.3.11	<b>Crop Metabolism to Crop</b> A. Crowe, Envigo, UK	Trials: why conduc	ct radiovalidation?								
16.10	6.3.12	<b>Eco-friendly crop protecti</b> H. Shao, Corteva Agriscier		pment								

16.30-17.00 Coffee Break

# sistance

ly Holden-Dye, University of Southampton, UK

todes provides new routes to crop protection

allida juveniles following fluensulfone exposure

of fluopyram in plant-parasitic nematodes

del target for the mode of action of natural insecticides

# A and resistance research sity, Belgium &

p Protection, UK

sis and the Impact of New Technologies

el and divergent selection responses to different METI-I

pproach to elucidation and exploration of modes of le, and what discriminates nicotine from neonicotinoids

dress target specific resistance to pesticides

al Development and its Mode of Action



Monday	Tuesday	Wednesday	Thursday	Friday	Posters	
	Baekeland III					

ŧN	++++ VIGO	7.7 Contribution of abiotic processes (sorption, volatilization, photolysis and hydrolysis) in pesticide dissipation and metabolism			1.3 21 <sup>st</sup> century stewardship — Explo agriculture
		Chairs: Claire Richard, CNRS, France & Erik van den Berg, Wageningen University, The Netherlands			Chairs: Patricia Rice, BASF, USA & Klaus
10.20	7.7.1	Pesticide dissipation in the environment: emission into the atmosphere, sorption, abiotic degradation	10.20		Opening remarks P. Rice, BASF, USA
		C. Bedos, INRA-AgroParisTech-Université Paris-Saclay, France			
11.00	7.7.2	Comparison of soil photolysis in dry and moist soil layers	10.40	1.3.1	Digital agriculture: Producing more wit D. Schaefer, Bayer AG, Germany
		T. Cooper, Smithers Viscient, UK	11.00	1.3.2	Application of web-based technologies
11.20	7.7.3	Viticulture fungicides wash-off from foliar surfaces: Laboratory-scale test system to derive relative			C.G. Hoogeweg, Waterborne Environme
		<b>wash-off factors</b> V. Gourlay, RLP AgroScience GmbH, Germany	11.20	1.3.3	Can on-line measurement accuracy of and on-line vis-NIR scanned spectra?
11.40	7.7.4	Experimental data on plant uptake for regulatory environmental fate modelling			M.A. Munnaf, Ghent University, Belgium
		C. Schriever, BASF SE, Germany	11.40	1.3.4	Improving management zones perform based on fusion of high resolution data
12.00	7.7.5	Characterizing volatile photoproducts of pesticides on plant surfaces M. Sleiman, Université Clermont Auvergne, France			S. Nawar, Ghent University, Belgium
		M. Sleinian, Universite Clerniont Advergne, France	12.00	1.3.5	The use of the hydraulic profiling tool t
12.20-14.3	30	Lunch, Lunch Workshops and Poster Session			protection products J.D.C. White, Arcadis UK Ltd., UK
12.45-14.15	5	Lunch Workshop	12.20	1.3.6	<b>Digital farming – What does it mean fo</b> M.F. Schäfer, BASF, Germany
		What in the world is IUPAC, really? Organisers: Laura McConnell (Bayer & Former Division President, IUPAC Division VI), Rai Kookana (CSIRO & Current Division President, IUPAC Division VI), and John Unsworth (Chair, IUPAC Committee	12.20-	14.30	Lunch, Lunch Workshops and Poster Se
		on Crop Protection Chemistry)			1.4 New paradigms in regulatory de



		M.F. Schäfer, BASF, Germany
12.20-14	1.30	Lunch, Lunch Workshops and Poster Session
		<b>1.4 New paradigms in regulatory decisio</b> <b>Chair:</b> Christoph Neumann, CropLife Internation
14.30		Opening remarks C. Neumann, CropLife International, Belgium
14.45	1.4.1	<b>Plant protection product regulations – How</b> C. Alonso Alija, Bayer AG, Germany
15.00	1.4.2	Policy convergence or policy interference? protection products S. N. Simiyu, CropLife Africa Middle East, Ken
15.15	1.4.3	Harmonization of Technical Guidelines for P W. Meyer, CropLife, Belgium
15.30	1.4.4	Facing up and meeting the regulatory challe chemistry to a shared reliance with other IP I. Pinzauti Babrzynski, IBMA, Belgium
15.45	1.4.5	Implementation of a globally harmonized ris making of crop protection products D.C. Wolf, Syngenta, USA
16.00	1.4.6	<b>The Innovation Principle, an important new</b> P.K. Leonard, European Risk Forum, Belgium
16.30-17	7.00	Coffee Break

Wednesday

Tuesday

**Ghislain I** 

Monday

# ury stewardship – Exploring the impact of digitalization and precision

ia Rice, BASF, USA & Klaus Kunz, Bayer AG, Germany

lture: Producing more with less in a sustainable way

f web-based technologies to advance pesticide stewardship eg, Waterborne Environmental, USA

neasurement accuracy of soil properties be improved by means of hybrid laboratory

anagement zones performance for variable rate nitrogen fertilization in cereal crops ion of high resolution data layers

e hydraulic profiling tool to support elucidation of groundwater detections of plant

ng – What does it mean for the plant protection product uses and the approval process?

<mark>on making</mark> tional, Belgium

does the future look like?

.. Africa's gain and pain in current regulation of crop

nya

Pesticide Management in ASEAN

lenges and obligations in our shift from reliance on PM measures for sustainable plant protection

isk assessment-based approach for regulatory decision-

r framework for policymakers, society & the environment

Monday	Tuesday	Wednesday	Thursday	Friday	Posters	
	Ghislain II					

	<ul> <li>5.3 Mechanisms of toxicity, criteria setting and harmonized approaches</li> <li>Chairs: Philip Marx-Stölting, German Federal Institute for Risk Assessment, Germany &amp; Kiki Machera, Benaki Phytopathological Institute, Greece</li> </ul>
5.3.1	(Q)SAR tools for prediction of mutagenic properties – Are they ready for application in pesticide regulation? K. Herrmann, German Federal Institute for Risk Assessment, Germany
5.3.2	<b>Metabolism of 14c-ipconazole in the rat</b> L. Knight, Envigo, UK
5.3.3	Screening of 348 plant protection products and 96 biocidal products for the identification of endocrine disruptors in the context of impact assessment E.S. Katsanou, Benaki Phytopathological Institute, Greece
5.3.4	Development of a testing strategy to reduce animal testing in eu plant protection product hazard and risk assessment D. Kurth, German Federal Institute for Risk Assessment, Germany

- 11.405.3.5Source to outcome approach for inhalation risk assessment<br/>D.C. Wolf, Syngenta Crop Protection LLC, UK
- 12.00 Discussion

10.20

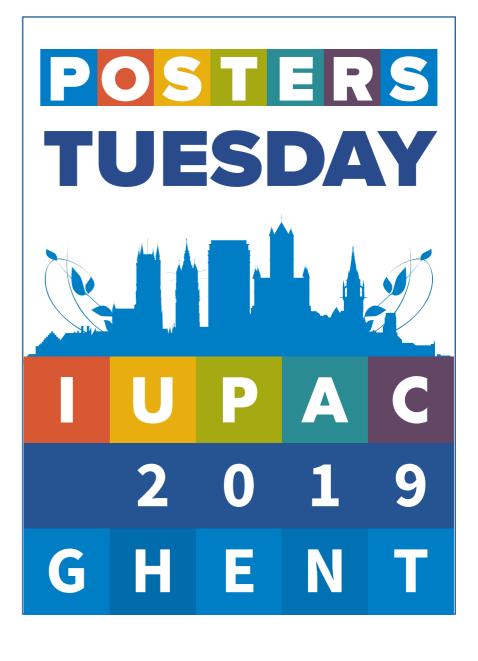
10.40

11.00

11.20

12.20-14.30 Lunch, Lunch Workshops and Poster Session







# Together we're preserving nature for the future.

The Good Growth Plan is flourishing, thanks to the real faces behind it. Luciane Copetti is working with Syngenta, farmers and NGOs to prove sustainable soybean production can make a huge difference to Brazil's economy, and preserve nature for future generations too. Under the plan, we've committed to enhance the biodiversity on 5 million hectares of farmland by 2020. Together with people like Luciane, we're creating more field margins and nature-friendly farming with long-term benefits for everyone. Follow our progress at goodgrowthplan.com

# That's the power of together.



Monday Tuesday Wednesday Thursday Friday Posters topic 2 **ISCP** - Novel agricultural technologies P2.1 **RNA**-based biocontrols: An industry perspective W. Maddelein<sup>1</sup>, D. Ackland<sup>2</sup>, M. Seymour<sup>2</sup>, R. Dominguez-Espinosa<sup>2</sup>, <u>G. Plaetinck<sup>1</sup></u>, M. Bean<sup>1</sup> <sup>1</sup>Syngenta, Belgium; <sup>2</sup>Syngenta, UK P2.2 RNAI as a lethal mechanism to control Colorado potato beetle L. Rüßmann<sup>1,3</sup>, S. Mehlhorn<sup>2,3</sup>, J. Ulrich<sup>2,3</sup>, S. Geibel<sup>3</sup>, R. Nauen<sup>3</sup> <sup>1</sup>Heinrich-Heine-University Düsseldorf; <sup>2</sup>University of Göttingen; <sup>3</sup>Bayer AG, Germany

- P2.3 Study of O-glycosylation related genes in development of Tribolium castaneum W. Li, K. De Schutter, E.J.M. Van Damme, G. Smagghe Ghent University, Belgium
- P2.5 The promising potential of zein nanoparticles loaded with neem oil to be used in sustainable agriculture M. Pascoli<sup>1</sup>, M. Tavares Jacques<sup>2</sup>; D. Araujo Agarrayua<sup>2</sup>, A. Kikuchi Calzavara<sup>3</sup>, F. Pereira de Albuquerque<sup>1</sup>, B. Tinoco-Nunes<sup>1</sup>, W. Henrique Cruz Oliveira<sup>1</sup>, D. Silva Ávila<sup>2</sup>, H. Caixeta de Oliveira<sup>3</sup>, J. Augusto Souza-Neto<sup>1</sup>, R. de Lima<sup>4</sup>, L. Fernandes Fraceto<sup>1</sup> <sup>1</sup>São Paulo State University; <sup>2</sup>Federal University of Pampa; <sup>3</sup>Londrina State University; <sup>4</sup>University of Sorocaba, Brazil
- Development and evaluation of biogenic metal nanoparticles (silver, titanium and iron) based on P2.6 Trichoderma Harzianum for agricultural application M. Guilger<sup>1</sup>, N. Bilesky-José<sup>1</sup>, T. Stigliani-Pasquoto<sup>1</sup>, L.F. Fraceto, R. Lima<sup>1</sup> <sup>1</sup>University of Sorocaba; <sup>2</sup>UNESP, Brazil
- Aphicidal potential of green synthesized magnesium oxide nanoparticles using Chamaemelum nobile P2.7 flowers extract

A.Y. Ghidan<sup>1</sup>, T.M. Al Antary<sup>1</sup>, A.M. Awwad<sup>2</sup>, O.Y. Ghidan<sup>3</sup> <sup>1</sup>University of Jordan, Jordan; <sup>2</sup>Royal Scientific Society; <sup>3</sup>Chemistry Technologist, Australia

- P2.8 Status of R&D and manufacturing of biopesticides and biostimulants in India B. Saha NACL Industries Limited, India
- P2.9 Combining biologicals with chemistry: Determining tangible benefits E. Smetanova, P. Le Vieux, D. Neethling, B. Liebmann BASF SE, Germany
- P2.10 Reduction of Fusarium head blight in common wheat and durum wheat protected biologically with Aureobasidium pullulans, Debaryomyces hansenii and Rhodotorula glutinis U. Wachowska<sup>1</sup>, M. Wiwart<sup>1</sup>, E. Suchowilska<sup>1</sup>, M. Combrzyński<sup>2,3</sup>, D. Gontarz<sup>2</sup> in Lublin, Poland
- P2.11 Endophytic entomopathogenic fungi and host plant interactions: Impact on phytovirus transmission by insect vector J.C. Fingu Mabola, F. Francis

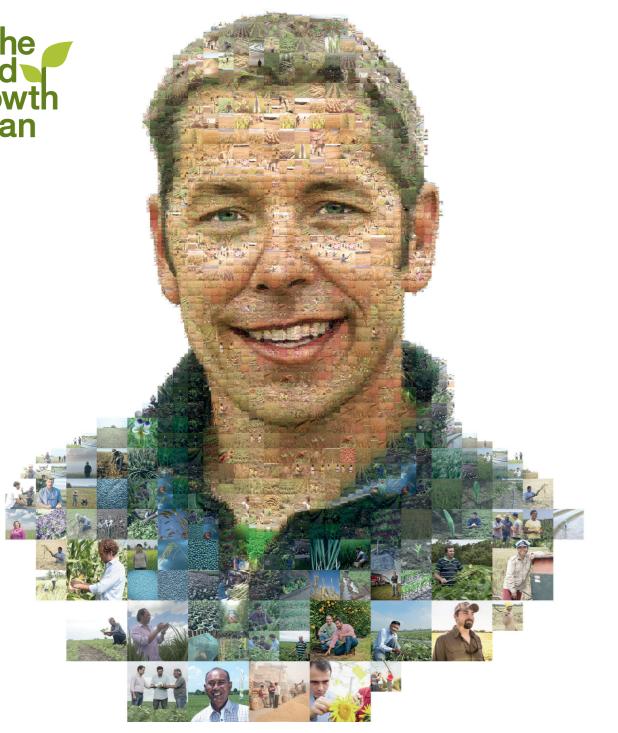
University of Liège, Belgium

- P2.12 Investigating the mode of action of Pseudomonas cyclic lipopeptides in inducing systemic resistance in plants E. Ferrarini<sup>1</sup>, B. De Coninck<sup>2</sup>, M. Höfte<sup>1</sup> <sup>1</sup>Ghent University; <sup>2</sup>KU Leuven, Belgium
- P2.13 Deep characterization of apple fruit epiphytic microbiome in Belgium for sustainable agriculture A.R. Sare, M. H. Jijakli, S. Massart University of Liège, Belgium



<sup>1</sup>University of Warmia and Mazury in Olsztyn; <sup>2</sup>PZZ Lubella GMW Sp. z o.o. Sp.k.; <sup>3</sup>University of Life Sciences





# Together we're growing more from less for generations to come.

Tanner Tanke is just one of the many real faces behind The Good Growth Plan. He's growing crops more efficiently to protect the environment and make his farm more profitable so that it's around for his five-year-old son in years to come. We're working with farmers like Tanner to increase the average productivity of the world's major crops by 20% by 2020, without using more land, water or inputs. The more people that get involved, the better we can feed a fast-growing population. Follow our progress at goodgrowthplan.com

# That's the power of together.



© 2017 Syngenta. All rights reserved. The SYNGENTA Wordmark and THE GOOD GROWTH PLAN are trademarks of a Syngenta Group Company. www.syngenta.com

1	Monday	Tuesday	Wednesday			
		IS	Posters to i <b>CP - Novel agricultu</b>			
P2.14	<u>R.A. Polancz</u>		r <b>ic microparticles for th</b> P. Soares, J.L. de Oliveiı zil			
P2.15	<b>Lipopeptides produced by Bacillus subtilis as new bi</b> <u>F. Krier</u> <sup>1</sup> , G. Mihalache <sup>2</sup> , T. Balaes <sup>2</sup> , I. Gostin <sup>2</sup> , M. Stefan <sup>2</sup> <sup>1</sup> University of Lille, France; <sup>2</sup> The Alexandru Ioan Cuza U					
P2.16	M. Poboznia	entomophatogenic <u>k,</u> D. Grabowska f Agriculture, Polanc	<b>fungi Bauveria bassian</b>			
P2.17	<u>M. Poboznia</u>	<b>e of Bauveria bass</b> <u>k,</u> D. Grabowska f Agriculture, Polanc	iana for biological cont			
P2.18	A. De Roissa	<b>ontrol of aphids on</b> a <u>rt,</u> J. Moens ollege Ghent, Belgi				

- P2.19 The impact of the surrounding environment and management system in apple orchards on the structure of predatory coccinellids (coleoptera, coccinellidae) E. Wojciechowicz-Żytko, E. Wilk Agricultural University, Poland
- P2.20 Effect of microbial consortia from soil and irrigation water on lettuce seedlings, in Colombia L.C. Sanchez Leal, M. L. Posada Buitrago, R.P. Diaz, S.V. Benitez Hernandez, L.C. Corrales Ramirez, J.G. Betancourt Bernal Colegio Mayor de Cundinamarca University, Colombia
- P2.21 Potato scab complex disease: Causal agents and their pathogenicity factors, annual crop losses and its safe control G. Khodakaramian Bu-Ali Sina University, Iran
- P2.22 Fast and reliable quantification of Verticillium dahliae microsclerotia in soil J. Debode<sup>1</sup>, L. Willaert<sup>2</sup>, F. Focquet<sup>1</sup>, M. Heupel<sup>3</sup>, K. Heungens<sup>1</sup> Germany
- P2.23 Integrated management of pepper under greenhouse by combination of insecticide and resistance inducer (Cyantraniliprole/Acibenzolar-S-Methyl) for virus and related vector control A. Fanigliulo<sup>1</sup>, D. Spaccatrosi<sup>2</sup>, N. Prencipe<sup>2</sup>, A. Crescenzi<sup>3</sup> Italy
- P2.24 The N-glycan profile of the peritrophic matrix in the Colorado potato beetle (Leptinotarsa decemlineata) D. Liu<sup>1</sup>, K. De Schutter<sup>1</sup>, N. Smargiasso<sup>1</sup>, E. De Pauw<sup>2</sup>, E.J.M. Van Damme<sup>1</sup>, G. Smagghe<sup>1</sup> <sup>1</sup>Ghent University; <sup>2</sup>University of Liège, Belgium
- P2.25 Mycotoxin contamination of apple fruits infected by fusarium spp. M. Petreš<sup>1</sup>, M. Grahovac<sup>1</sup>, A. Obradović<sup>2</sup>, S. Stanković<sup>2</sup>, M. Loc<sup>1</sup>, J. Hrustić<sup>3</sup>, M. Mihajlović<sup>3</sup>
- P2.26 Rapid diagnosis of herbicidal activity using infrared thermal image analysis D.S. Kim, T.K. Noh, S.H. Park, J.H. Boo, H.R. Kim Seoul National University, Korea

Thursday		Friday	Posters Tuesday	
oic 2 <b>ral technol</b> e	ogies			

e control of Sphenophorus levis ra, L.F. Fraceto

control agent against fusariosis in ornemental plants F. Coutte<sup>1</sup> niversity of lasi, Romania

a against Thrips tabaci in leek

rol of Thrips tabaci in onion

<sup>1</sup>Flanders Research Institute for Agriculture; <sup>2</sup>Inagro, Belgium; <sup>3</sup>Landwirtschaftskammer Nordrhein-Westfalen,

<sup>1</sup>Bioagritest Srl Centro Interregionale di Diagnosi Vegetale; <sup>2</sup>Syngenta Italia Spa; <sup>3</sup>Scuola di Scienze Agrarie,

<sup>1</sup>University of Novi Sad; <sup>2</sup>Maize Research Institute; <sup>3</sup>Institute of Pesticides and Environmental Protection, Serbia



# Together we're making farms safer for workers.

Shi Lijie has been on a mission to educate farmers in her community about the safe use of pesticides ever since she took part in one of our training programs. As well as protecting crops, we have a responsibility to protect growers too. That's why we've pledged to train 20 million farm workers on labor safety by 2020. But it's the real faces behind The Good Growth Plan - people like Shi Lijie - who are making this goal achievable. Follow our progress at goodgrowthplan.com

# That's the power of together.



Monday Tuesday Wednesday Thursday Friday Posters Tuesday Posters topic 2 **ISCP - Novel agricultural technologies** P2.27 Comparative genomics of 20 rhizogenic Agrobacteria isolated from hydroponic tomato greenhouses P. Vargas<sup>1</sup>, L. Bosmans<sup>1</sup>, S. Van Kerckhove<sup>2</sup>, W. Vanlommel<sup>3</sup>, B. Van Calenberge<sup>4</sup>, B. Lievens<sup>1</sup>, H. Rediers<sup>1</sup> <sup>1</sup>KU Leuven; <sup>2</sup>Scientia Terrae; <sup>3</sup>Proefcentrum Hoogstraten; <sup>4</sup>Proefstation voor de Groenteteelt, Belgium P2.28 SYTRANSPOM: Development of collaborative and innovative alert and decision systems promoting integrated protection against fungal potato diseases J. Rivière<sup>1</sup>, B. Demey<sup>2</sup>, P. Vanhaverbeke<sup>3</sup>, K. Cornelissen<sup>3</sup>, K. Demeulemeester<sup>4</sup>, D. Hannon<sup>5</sup>, R. Valade<sup>5</sup>, D. Gaucher<sup>5</sup>, O. Mahieu<sup>2</sup>, D. Lanterbecq<sup>1,2</sup> <sup>1</sup>Haute école provinciale de Hainaut-Condorcet; <sup>2</sup>Centre pour l'agronomie et l'agro-industrie de la province du Hainaut; <sup>3</sup>Interprovincial Proefcentrum voor Aardappelteelt vzw; <sup>4</sup>Inagro, Belgium; <sup>5</sup>Arvalis, France P2.29 Effect of different management alternatives for the control of fusarium head blight in wheat and its relationship with the MRL C. Palladino<sup>1</sup>, C. Francia<sup>2</sup>, L. Martella<sup>2</sup>, M. Passarino<sup>2</sup>, C. Pérez<sup>2</sup>, L. Pareja<sup>3</sup> <sup>1</sup>Polo de Desarrollo Universitario Abordaje Holístico Impactos de los Agroquímicos; <sup>2</sup>EEMAC; <sup>3</sup>CENUR Litoral Norte, Uruguay P2.30 Protective effect of essential oils on the mycotoxins production and wheat kernels germination E. Alexa, R. Sumalan, M. Negrea, V. Bota Banat's University of Agricultural Sciences and Veterinary Medicine, Romania P2.31 Botanical compounds and crop protection: In vitro evaluation of biofungicidal activity of 3 biocontrol products V. Destombes, C. Deweer, J. Jacquin, J. Muchembled Charles Viollette Research Institute, France

- P2.32 In vitro activities of hop extracts against phytophthora infestans and characterization of their metabolites J. Jacquin, N. Bonneau, C. Deweer, L. Bocquet, C. Dermont, S. Bordage, P. Halama, S. Sahpaz, J. Muchembled, C. Rivière, J.L. Hilbert Charles Viollette Research Institute, France
- P2.33 COS-OGA, a versatile tool for both organic and integrated control of plant diseases G. van Aubel<sup>1,2</sup>, R. Buonatesta<sup>1</sup>, S. Moreau<sup>2</sup>, P. Van Cutsem<sup>1,2</sup> <sup>1</sup>Fytofend; <sup>2</sup>University of Namur, Belgium
- P2.34 The effects of different combinations of products mineral on the primary potato diseases and pests and on the yield of tubers S. Trdan, F. Vučajnk, T. Bohinc University of Ljubljana, Slovenia
- P2.35 New and scalable access to Karrikin and evaluation of its potential application on corn germination M. Lachia, A. Lumbroso, R. Fonné-Pfister, C. Screpanti, S. Rendine, P. Renold, D. Witmer, E. Godineau, D. Hueber, A. De Mesmaeker Syngenta Crop Protection AG, Switzerland
- P2.36 Insect antifeedants from trichomes on yacon (Smallanthus sonchifolius) leaves M. Morimoto, K. Tsunaki, K. Matsuda Kindai University, Japan
- P2.37 Comparative study of plant innate immunity in monocots and dicots after elicitation with COS-OGA S. Moreau<sup>1</sup>, G. van Aubel<sup>2</sup>, P. Van Cutsem<sup>1</sup> <sup>1</sup>University of Namur; <sup>2</sup>Fytofend, Belgium

# Even greater focus on partnership

Our success has been built on partnerships, and now that we're Nouryon, we're putting even greater focus on meeting our customers' needs and working with our partners to create value and mutual growth.

Our agrochemical portfolio includes well-known brands such as Morwet<sup>®</sup> dispersants, Adsee<sup>™</sup> adjuvants, Agrilan<sup>®</sup> polymers, Armid<sup>®</sup> solvents. nouryon.com/agriculture

Visit us at **booth 54** 

Learn about Agrilan 1028, "A versatile surfactant in high electrolyte systems" Thursday May 23, poster session 4

Formerly AkzoNobel SPECIALTY CHEMICALS



Monday	Tuesday	Wednesday	
		Deat	

- P2.38 Natural substances for crop protection: Comparing the path for registration in Europe, Canada and USA J.J. Carvalho<sup>1</sup>, B. De Winter<sup>2</sup>, P. Kabouw<sup>3</sup>, A. Taya<sup>4</sup>, C. Legue<sup>5</sup>, L. Ramaekers<sup>6</sup> SAS, France; <sup>6</sup>Arysta LifeScience, Belgium
- P2.39 Resistant to late blight disease in potato cultivars induces my monopotassium phosphite N. Najdabbasi<sup>1,2</sup>, K. Dewitte<sup>1</sup>, S.M. Mirmajlessi<sup>1</sup>, M. Mänd<sup>2</sup>, K. Audenaert<sup>1</sup>, G. Haesaert<sup>1</sup> <sup>1</sup>Ghent University, Belgium; <sup>2</sup>Estonian University of Life Sciences, Estonia
- P2.40 Stress hormone responses caused by mites in raspberry and azalea L. Leus<sup>1</sup>, J. Witters<sup>1</sup>, J. Van Huylenbroeck<sup>1</sup>, E. Pauwels<sup>2</sup>, C. Van Poucke<sup>3</sup>, G. Luypaert<sup>1</sup>, J. Audenaert<sup>2</sup> <sup>1</sup>ILVO; <sup>2</sup>PCS; <sup>3</sup>ILVO, Belgium
- P2.41 Evaluation of Melia volkensii as a potential biopesticide against the African sweet potato weevil, cylas puncticollis V. Jaoko<sup>1</sup>, C.N.T. Taning<sup>1</sup>, S. Backx<sup>2</sup>, J. Mulatya<sup>3</sup>, J. Vandenabeele<sup>4</sup>, F. Olubayo<sup>5</sup>, S. Mangelinckx<sup>2</sup>, S. Werbouck<sup>1</sup>, G. Smagghe<sup>1</sup> <sup>1</sup>Ghent University; <sup>2</sup>Ghent University, Belgium; <sup>3</sup>Kenya Forestry Research Institute; <sup>4</sup>Better Globe Forestry; <sup>5</sup>University of Nairobi, Kenya
- P2.42 Potential of essential oils from piper nigrum against cowpea weevil R. Wanna<sup>1</sup>, P. Kwang-Ngoen<sup>2</sup> <sup>1</sup>Mahasarakham University; <sup>2</sup>Chiang Mai University, Thailand
- P2.43 Ovipositional inhibition of essential oil from pepper and Diade against cowpea weevil R. Wanna<sup>1</sup>, P. Kwang-Ngoen<sup>2</sup> <sup>1</sup>Mahasarakham University; <sup>2</sup>Chiang Mai University, Thailand
- P2.44 Reynoutria sachalinensis plant formulation triggers resistance in various squash genotypes against Podosphaera xanthii through priming of defense responses T. Margaritopoulou, D. Kizis, K.-E. Vichou, E. Markellou Benaki Phytopathological Institute, Greece
- P2.45 Screening of new biosourced molecules as biocontrol agents against wheat powdery mildew Université Littoral Côte d'Opale, France
- P2.46 Two fatty acids isolated from itchgrass (Rottboellia cochinchinensis) as plant growth inhibitor A. Bundit<sup>1</sup>, T. Pornprom<sup>2</sup>, K. Yamada<sup>3</sup>, H. Shigemori<sup>3</sup> <sup>1</sup>Chiang Mai University; <sup>2</sup>Kasetsart University, Thailand; <sup>3</sup>University of Tsukuba, Japan
- P2.47 Radical scavenging activity, chemical composition and physico-chemical analyses of essential oils in combination F. Milano, L. Donnarumma CREA, Italy
- P2.49 The effect of selected preparations on the healthiness of parsley roots (Petroselinum crispum var. Tuberosum) J. Nawrocki, M. Machura, S. Mazur University of Agriculture in Krakow, Poland

# topic 2 **ISCP** - Novel agricultural technologies

# <sup>1</sup>knoell Germany GmbH, Germany; <sup>2</sup>DCM, Belgium; <sup>3</sup>BASF, Germany; <sup>4</sup>STK Bio-Ag Technologies, Israel; <sup>5</sup>Bayer

N. Raouani, B. Tisserant, M. Magnin-Robert, B. Randoux, J. Fontaine, A. Lounès-Hadj Sahraoui, Ph. Reignault

# **FMC CORPORATION** IS A PROUD SPONSOR **OF IUPAC 2019.**

FMC Corporation provides solutions to growers around the world with a portfolio of proprietary crop protection products and a robust pipeline fueled by innovative discovery and development in crop protection, plant health and professional pest and turf maintenance solutions. FMC employs approximately 6,500 employees around the globe.



# FMC.com · FMCsustainability.com





COPYRIGHT ©2019 FMC CORPORATION. ALL RIGHTS RESERVED.

An Agricultural

Poster: Food qualit					
Monday Tuesday Wednesday					

- P6.2 Novel electrochemical sensor for the multiple detection of pesticides using bismuth ferrite nanoflowers S. El-Akaad<sup>1,2</sup>, M.A. Mohamed<sup>2</sup>, M.M. Elmasri<sup>3</sup>, E.A. Abdelaleem<sup>4</sup>, N.S. Abdelwahab<sup>4</sup>, S. De Saeger<sup>1</sup>, N. Beloglazova<sup>1,5,6</sup> <sup>1</sup>Ghent University, Belgium; <sup>2</sup>National Organization for Drug Control and Research; <sup>3</sup>National institute of standards; <sup>4</sup>Benisuef University, Egypt; <sup>5</sup>South Ural State University; <sup>6</sup>Saratov State University, Russia
- P6.3 season, and producer

P. Xylia<sup>1</sup>, G. Botsaris<sup>1</sup>, A. Chrysargyris<sup>1</sup>, P. Skandamis<sup>2</sup>, N. Tzortzakis<sup>1</sup> <sup>1</sup>Cyprus University of Technology, Cyprus; <sup>2</sup>Agricultural University of Athens, Greece

- Quality and safety attributes on shredded carrots by using Origanum majorana and ascorbic acid sanitation P6.4 means P. Xylia<sup>1</sup>, B. Clark<sup>2</sup>, A. Chrysargyris<sup>1</sup>, S. Petropoulos<sup>3</sup>, N. Tzortzakis<sup>1</sup> <sup>1</sup>Cyprus University of Technology, Cyprus; <sup>2</sup>Edge Hill University, UK; <sup>3</sup>University of Thessaly, Greece
- Determination of PAHs in oregano with modified QuEChERS method P6.5 N. Tomcic, M.P. Todorovic, J. Banic-Simicic, B. Marosanovic SP Laboratorija AD, Serbia
- Temperature and sample form affect the storage stability of residual malathion P6.6 Y. Bian, F. Liu, X. Li China Agricultural University, China
- The effects of peeling or shelling processing on pesticide residues in four fruit crops P6.7 H.-L. Lu, T.- H.Shyu Taiwan Agricultural Chemicals and Toxic Substances Research Institute, Taiwan
- P6.8 Improving pollution management of persistent organic pollutants to reduce the impact on people and the environment (RLA 5069 ARCAL CXLII) P. Gatti<sup>1</sup>, H. Heinzen<sup>2</sup>, J. A. Guerrero<sup>3</sup>, C. Carrasco<sup>4</sup>, P. Enriquez<sup>5</sup>, M. Masís<sup>6</sup>, A. Ramírez<sup>7</sup>, C.R. Castro<sup>8</sup>, G. Alvarez<sup>9</sup>, G. Garcia<sup>10</sup>, S. Caballero<sup>1</sup> <sup>1</sup>Instituto Nacional de Tecnología Industrial INTI, Argentina; <sup>2</sup>Facultad de Química, Uruguay; <sup>3</sup>Universidad Nacional de Colombia Email, Colombia; <sup>4</sup>Universidad Mayor de San Andrés, Bolivia; <sup>5</sup>Servicio Agrícola y Ganadero (SAG), Chile; <sup>6</sup>Centro de Investigación en Contaminación Ambiental (CICA), Costa Rica; <sup>7</sup>Instituto de Innovación en Biotecnología e Industria, Dominican Republic; <sup>8</sup>Subsecretaría de control y aplicaciones nucleares (SCAN). Ecuador: <sup>9</sup>Laboratorio Nacional de Salud Ministerio de Salud Pública y Asistencia Social (MSPAS) Instituto, Guatemala; <sup>10</sup>Tecnológico de Toluca, Mexico
- P6.9 Crop metabolism to crop trials: Why conduct radiovalidation? A. Crowe, S. Penketh, R. Unsworth, Y. Zhang Envigo, UK
- Determination and residue behavior of propamocarb and cymoxanil in potatoes, tomatoes and cherry tomatoes in field ecosystems with different cultivation conditions X. Chen, F. Liu China Agricultural University, China
- P6.11 Comparison of adherence properties of pesticides sprayed on different sizes of tomato fruits T. Nagata, H. Dobashi, K. lijima, K. Ohyama The Institute of Environmental Toxicology, Japan
- P6.12 Determination of polyoxin B residues in apple using ultra performance liquid chromatography tandem mass spectrometry L. Chen, B. Liu, C. Jia Beijing Academy of Agriculture and Forestry Sciences, China



Friday

Posters Tuesday

# topic 6 and safety

# Changes in microbial load and antioxidative status of ready-to-eat salads as affected by the vegetable type,

# Visit us at Booth

# **Solutions for Global Regulatory** Compliance



Monday Tuesday Wednesday

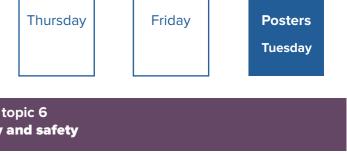
- Dissipation of pesticide in raw and processed pears P6.13 P. Parlakis<sup>1</sup>, .C. Adamidou<sup>1</sup>, E.-N. Papadakis<sup>2</sup>, U. Menkissoglu-Spiroudi<sup>2</sup>, Z. Vryzas<sup>1</sup> <sup>1</sup>Democritus University of Thrace; <sup>2</sup>Aristotle University of Thessaloniki, Greece
- P6.14 Fruit and Vegetables (EUPT-FV) from 2013 to 2017 by using the "Laboratory Triple-A Rating" approach A. Valverdea, A.R. Fernández-Alba, C. Ferrera, A. Aquilera University of Almería, Spain
- P6.15 Fast determination of glyphosate residue in mint herb by QuEChERS and UPLC/MS/MS H. Zhang, X. Feng, L. Pan, T. Xu China Agricultural University, China
- P6.16 Multi-residue analysis of 35 pesticide in mediar using QuEChERS and HPLC-MS/MS and evaluation of processing factors and storage stability W. Yao, L. Han, S. Song, Y. Bi China Agricultural University, China
- P6.17 The determination of thiram residues in fruit by UPLC-MS/MS G. Dean, S. Brewin, H. Harper, A. Blakely Envigo CRS Ltd, UK
- P6.18 The determination of ziram residues in fruit by LC-MS/MS G. Dean, S. Brewin, H. Harper, A. Blakely Envigo CRS Ltd, UK
- P6.19 Discrimination of Bacillus thuringiensis from other B. cereus group based on proteotyping by MALDI-TOF MS H. Tamura<sup>1</sup>, Y. Ido<sup>1</sup>, K. Kato<sup>1</sup>, A. Fujita<sup>1</sup>, S. Nagai<sup>1</sup>, A. Hosoda<sup>1</sup>, N. Takahashi<sup>2</sup>, Y. Tsujimoto<sup>2</sup> <sup>1</sup>Meijo University; <sup>2</sup>Hachioji, Japan
- P6.20 Improvement of multi-residue analysis method of 340 pesticides in agricultural products using LC-MS/MS S.H. Lee<sup>1</sup>, S.K. Kawk<sup>1</sup>, A. Sarker<sup>1</sup>, S.C. Cho<sup>1</sup>, H.J. Kim<sup>1</sup>, H.R. Jeong<sup>1</sup>, Y.D. Lee<sup>2</sup>, J.E. Kim<sup>1</sup> <sup>1</sup>Kyungpook National University; <sup>2</sup>Daegu University, Korea
- P6.21 Development of a QuEChERS method for the determination of pesticide residues in Portuguese meat by GC-FPD

V.C. Fernandes<sup>1</sup>, N. Komora<sup>2</sup>, D. Jesus<sup>2</sup>, M. Pintado<sup>2</sup>, P. Teixeira<sup>2</sup>, C. Delerue-Matos<sup>1</sup> <sup>1</sup>REQUIMTE/LAQV; <sup>2</sup>Universidade Católica Portuguesa, Portugal

P6.22 Development of a QuEChERS method for the determination of six organophosphorus pesticides in vine shoots by GC-FPD

V.C. Fernandes<sup>1</sup>, M.M. Moreira<sup>1</sup>, M. Chen<sup>2</sup>, S. Morais<sup>1</sup>, C. Delerue-Matos<sup>1</sup> <sup>1</sup>REQUIMTE/LAQV, Portugal; <sup>2</sup>Université Paris-Sud, France

- P6.23 Simultaneous determination of mesotrione, s-metolachlor, and terbutilazine in pesticide formulations S.D. Lazic, D.B. Sunjka, S.M. Vukovic, I. Benke, A. Alavanja, A.D. Zunic University of Novi Sad, Serbia
- P6.24 Method for mercury determination in tuna and rice samples by atomic absorption spectrometry of thermal decomposition amalgamation TDA AAS K. Quesada, B. Checa, J. Bonilla Ministerio de Desarrollo Agropecuario, Panama



Performance evaluation of laboratories participating in the EU Proficiency Tests for Pesticide Residues in

# Sky-High Quality Service



We are RIFCON - a full service partner in the complex field of international plant protection product registration. With our new drone technology we generate registration relevant data. That lifts our high quality service to the next level - literally.

° ...

P6.25 Effects of herbicides on yield and the shelf life of yam: A case study in the Nanumba traditional area of Ghana

A. Wumbei<sup>1,2</sup>, J.K. Bawa<sup>2</sup>, M.A. Akudugu<sup>2</sup>, M. Houbraken<sup>1</sup>, P. Spanoghe<sup>1</sup> <sup>1</sup>Ghent University, Belgium; <sup>2</sup>University for Development Studies, Ghana

- P6.26 Pesticide residues in processed table olives E.L. Tsoupras, .C. Adamidou, Z. Vryzas Democritus University of Thrace, Greece
- P6.27 A comparison of import tolerance setting procedures in various countries and territories M. Fahrbach, G.M. Dean Envigo, UK
- P6.28 What's in a residue definition? J. Oliver-Kang, J. Ruhl, P. Geurs Corteva Agriscience, UK
- P6.29 Residual analysis and dietary exposure risk assessment of triazophos in horseradish M. He, X. Zhu, C. Jia, P. Yu Beijing Academy of Agricultural and Forestry Science, China







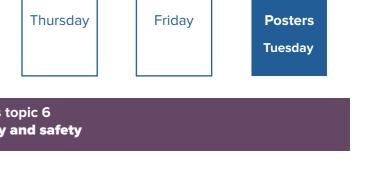






# **GET IN TOUCH WITH US** RIFCON GmbH | info@rifcon.de | 0049 (0) 6201 84528 00









# Growing <sup>in</sup> Unison

# **Integrated Crop Protection** with SIVANTO® prime

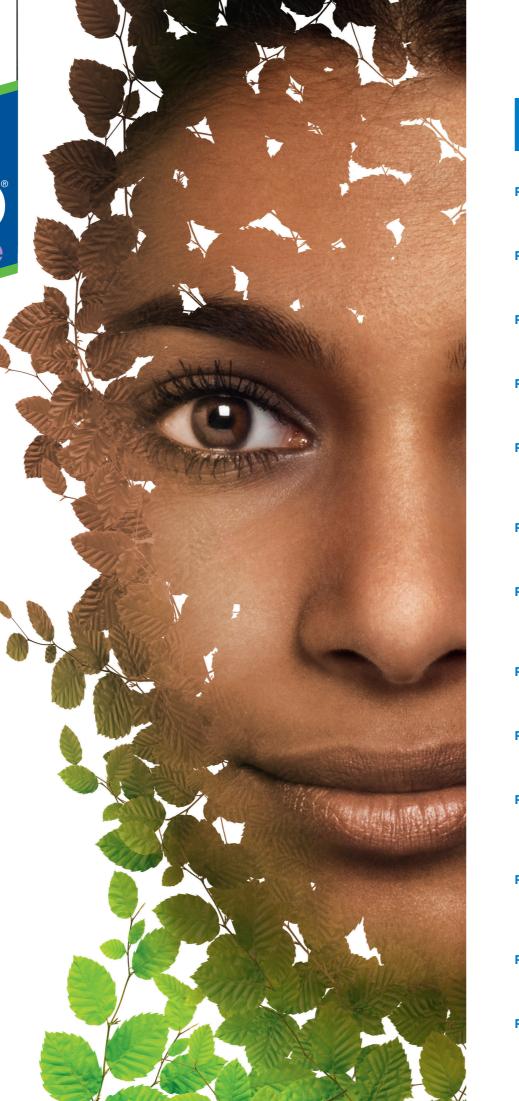
- broad & reliable insect control
- fast activity leading to quick feeding cessation
- flexible application timing (even during flowering)
- favorable safety profile

Growing crops with environmental responsibility and economic success.

www.sivanto.bayer.com

Bayer AG Crop Science Division Alfred-Nobel-Str. 50 D - 40789 Monheim am Rhein Germany

www.cropscience.bayer.com



		Deet	
Monday	Tuesday	Wednesday	

- Dufulin inhibits the virulence of Southern rice black-streaked dwarf virus P6 protein P9.1 X. Li, M. Huang, D. Wang, K. Chen, D. Gao Ministry of Education/Guizhou University, China
- P9.2 Amino-pyrazoles - Structure activity relationship exploration & mode of action elucidation C. Dey, A. Weber, C. Winter, B. Mueller, M. Fehr BASF SE, Germany
- P9.3 Machine-learning assisted phenotyping: From fungal morphology to mode of action hypothesis S. Laroui<sup>1</sup>, E. Debreuve<sup>1</sup>, X. Descombes<sup>1</sup>, F. Villalba<sup>2</sup>, F. Villiers<sup>2</sup>, A. Vernay<sup>2</sup> <sup>1</sup>Nice Sophia-Antipolis University; <sup>2</sup>Bayer CropScience Disease Control Research Center, France
- Revysol<sup>®</sup> Fungicidal action on a microscopic level P9.4 I. Siepe<sup>1</sup>, D. Strobel<sup>1</sup>, R. Bryson<sup>1</sup>, M. Schuster<sup>2</sup>, G. Steinberg<sup>2</sup>, J. Smith<sup>3</sup>, S. Kurup<sup>4</sup> <sup>1</sup>BASF SE, Germany; <sup>2</sup>University of Exeter; <sup>3</sup>ADAS Rosemaund; <sup>4</sup>Rothamsted Research, UK
- P9.5 Verticillium and Fusarium wilt disease Y. Hou, Y. Pei, X. Li, Y. Sun, N. Liu, Y. Zhu, Y. Jia China Agricultural University, China
- A hytoalexin-deficient4 (GhPAD4) mediates resistance to Verticillium wilt in cotton P9.6 Y. Sun, X. Li, N. Liu, Y. Pei, Y. Zhu, Y. Jia, Y. Hou China Agricultural University, China
- Molecular evidence for the involvement of GhWSR in drought tolerance and response to Fusarium P9.7 oxysporum in cotton X. Li, Y. Sun, N. Liu, Y. Pei, Y. Zhu, Y. Jia, Y. Hou China Agricultural University, China
- P9.8 Effect of temperature on the expression of fungicide resistance in Zymoseptoria tritici C. Ugazio<sup>1</sup>, M. Bomble<sup>1</sup>, A. Siah<sup>1</sup>, M. Holvoet<sup>1</sup>, C. Payet<sup>2</sup>, C. Tuffet<sup>2</sup>, P. Halama<sup>1</sup> <sup>1</sup>ISA Institut Charles Viollette; <sup>2</sup>Bayer CropScience, France
- P9.9 Studies on the safety mechanism of a herbicide, Axeev® to wheat Y. Tanetani, K. Kawai Kumiai Chemical Industry Co., Japan
- P9.10 Influence of plant phenolic compounds in controlling ryegrass response to glufosinate ammonium under different temperatures T. Mucheri, P.J. Pieterse, C. Reinhardt, A. Kleinert Stellenbosch University, South Africa
- P9.11 Control of commonly occurring insecticide resistant hemipteran pests with spiropidion, a new accase inhibitor insecticide C.T. Zimmer<sup>1</sup>, A. Stempniewicz<sup>1</sup>, P. Süess<sup>1</sup>, J. Elias<sup>1</sup>, R. Slater<sup>2</sup>, R. Senn<sup>2</sup> <sup>1</sup>Syngenta Crop Protection Stein; <sup>2</sup>Syngenta Crop Protection Basel, Switzerland
- P9.12 Susceptibility of the African bollworm, Helicoverpa armigera to two commonly used insecticides in Sudan H. Abdelgader Agricultural Research Corporation, Sudan
- P9.13 Metabolisms of cycloxaprid by P450 CYP6CM1vQ and CYP6G1 in vitro Z. Xu<sup>1</sup>, Q. Mei<sup>1</sup>, Y. Zhang<sup>2</sup>, X. Shao<sup>1</sup>, J. Cheng<sup>1</sup>, Z. Li<sup>1</sup> <sup>1</sup>East China University of Science and Technology; <sup>2</sup>Nanjing Agricultural University, China

Thursday	
Thursday	

Friday

Posters Tuesday

rs topic 9 Mode of action and resistance

Role of GhABP19, a novel germin-like protein form Gossypium hirsutum, in the regulation of resistance to



# SERENADE

# Marketability +

**Biologicals: Enhancing Crop Protection** 

With multiple modes of action, Serenade is an excellent fungicide choice for anyone concerned about marketability. That's because Serenade biological fungicide easily meets local and regional MRL standards, enabling growers to reach more markets. When used in combination with our other world-class crop protection products, Serenade is a vital component of an integrated crop solution that reliably boosts yield and the potential for profit at harvest time.

For more information about Serenade and other Bayer biologicals, visit www.cropscience.bayer.com

© 2019 Bave

Bayer, the Bayer Cross, and Serenade are registered trademarks of Bayer. Consult country registration status, local registrations may differ. Use plant protection products safely. Always read the label and product information before use.

		N	Post lode of act	
monuay	Tuesday		weanesday	
Monday	Tuesday		Wednesday	

- P9.14 CYP6BQ25, a second cytochrome P450 mediating (Brassicogethes aeneus) D. Boaventura<sup>1,2</sup>, A.D.P. Baez<sup>3</sup>, B. Buer<sup>2</sup>, O. Gutbrod<sup>2</sup>, M. Kohler<sup>2</sup>, D. Steinbach<sup>2</sup>, R. Nauen<sup>2</sup> <sup>1</sup>University of Bonn; <sup>2</sup>Bayer AG, Germany; <sup>3</sup>Macquarie University, Australia
- P9.15 Physiological and molecular analysis of oxazosulfyl on insect T. Suzuki, S. Yamato Sumitomo Chemical Co., Japan
- P9.16 Monitoring of insecticide resistance and associated mutations in the sweet potato whitefly, Bemisia tabaci, in China S. Wang, H. Zheng, Y. Zhang Chinese Academy of Agricultural Sciences, China
- P9.17 Biological activities of nitromethylene analogues of imidacloprid having a fluorinated or unsaturated substituent H. Nishiwaki, A. Kugiya, Y. Matsubara, S. Yamauchi Ehime University, Japan
- Identification of 2-tridecanone/fenvalerate regulatory elements in the promoter of cytochrome P450 P9.18 CYP6B7 in Helicoverpa armigera L. Xu, Y. Huang, P. Wu, J. Zheng, L. Qiu China Agricultural University, China
- P9.19 Computational insights into the synergistic mechanism of resistance to fipronil in RDL-GABA receptor of Nilaparvata lugens J. Cheng, T. Li, C. Zhou, Z. Li East China University of Science and Technology, China
- P9.20 Molecular tools for monitoring of resistance to insecticides M. Mboup FMC Agricultural Solutions, France
- P9.21 Genetics, molecular and functional characterization of insecticide/acaricide resistance in Tetranychus urticae

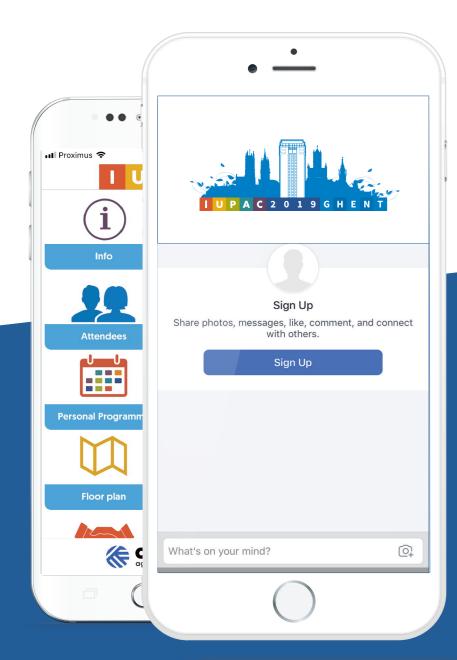
T. Van Leeuwen<sup>3</sup>, J. Vontas<sup>1,4</sup> <sup>1</sup>Institute of Molecular Biology & Biotechnology; <sup>2</sup>University of Crete, Greece; <sup>3</sup>Ghent University, Belgium; <sup>4</sup>Agricultural University of Athens, Greece

- P9.22 Selectivity, structure-activity relationship and binding site in targets of okaramines, indolealkaloid insecticides produced by Penicillium simplicissimum A. Noguchi<sup>1</sup>, N. Kato<sup>2</sup>, S. Furutani<sup>2</sup>, K. Kai<sup>3</sup>, H. Hayashi<sup>3</sup>, H. Osada<sup>2</sup>, K. Matsuda<sup>1</sup> <sup>1</sup>Kindai University; <sup>2</sup>RIKEN; <sup>3</sup>Osaka Prefecture University, Japan
- P9.23 Discovery of growth-defence regulated JA signaling pathway genes for plant protection N. Zhang, Z. Fan, B. Zhao, D. Yang Nankai University, China
- P9.24 Aminopyrifen, a novel 2-amino nicotinate fungicide with a unique mode of action and broad-spectrum M. Hatamoto, R. Aizawa, K. Koda, T. Fukuchi Agro-Kanesho Co., Japan

	Thursday		Friday		Posters Tuesday	
	oic 9 d resistanc	e				
g th	e detoxificati	on of c	deltamethrin	in poll	en beetle	

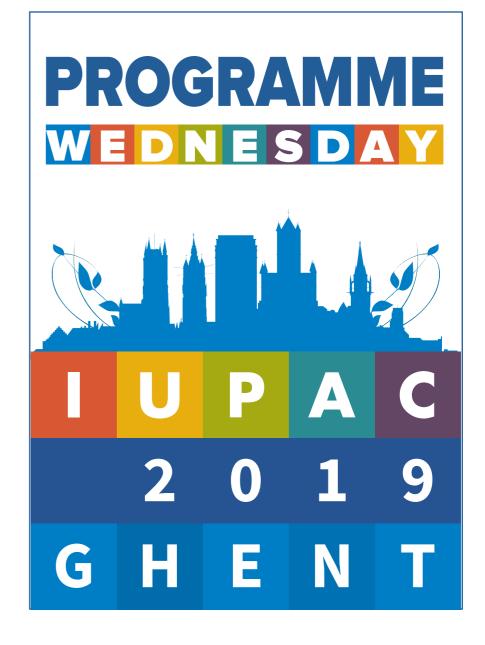
M. Riga<sup>1,2</sup>, K.M. Papapostolou<sup>1,2</sup>, E. Skoufa<sup>1,2</sup>, D. Tsakireli<sup>2</sup>, S. Bajda<sup>3</sup>, V. Douris<sup>1</sup>, E. Vorgia<sup>1</sup>, W. Dermauw<sup>3</sup>,







**IUPAC 2019** 



# Programme at a Glance - Wednesday, May 22

		Auditorium	Van Rysselberghe Room	Jan Van Eyck Room	Hubert Van Eyck Room
08.00	Presentations upload		'		
08.30		Plenary Talks N. Gras J. v. den Borne			
09.40			Coffee		
10.20	Parallel Sessions	Workshop: Ready for your close up?	3.3 New chemistries targeting crop enhancement and animal parasite, nematode and vector control (1/2)	2.5 Biostimulants	7.6 Advances in pesticides biodegra- dation and metabolism: Mechanisms, applications and regulatory issues
12.20/12.40			Lunch		
13.00-18.00	Field Excursions				
		Audi	torium		
13.30-15.30		ECPA - Sessic Latest regulat development development	ory s (Policy		
15.30-16.15		Break			
16.15-18.15		ECPA - Sessic Update on AS process			
18.15-19.15		Break			
19.15-20.15		ECPA evening What model f agriculture?			

Van der Goes Room	Bauwens Room	Baekeland Room I	Baekeland Room II	Baekeland Room III	Ghislain Room I	Ghislain Room II				
			0							
Coffee										
3.3 New chemistries targeting crop enhance- ment and animal parasite, nematode and vector control (2/2)	4.4 Approaches of reducing offset drift and the use of multifunc- tional field margins	6.3 Modern analytical techniques to detect and control residues in food and feed (3/3)	9.3 Insecticides: Mode of action and resistance (1/3)	7.10 Advances in mathematical modelling of pesticides environmen- tal exposure	1.5 Facilitating trade – Need for harmonizati- on of global MRLs	1.2 Lifecycle product stewardshif – Linking all aspects of the stewardshif arc				

Monday	Tuesday	Wednesday	Thursday	Friday		Posters		Monday	Tuesday		Wednesday
		Auditorium									Van Rysselberghe
					1		1			1	

	Plenary Talks		Use BASF	3.3 New chemistries targeting crop enha vector control (I)
08.30	Emerging Food Safety Risk : New Challenges for Latin American Countries Nuri Gras, Chilean Food Safety and Quality Agency, Chile			Chairs: Peter Maienfisch, Syngenta Crop Prot Xuhong Qian, East China Normal Univ
09.05	<b>Precision agriculture in practice</b> Jacob van den Borne, van den Borne Aardappelen, The Netherlands	10.20	3.3.1	<b>Malaria eradication, agricultural innovation a</b> N. Hamon, IVCC, UK
09.40-10.20	Coffee Break	10.40	3.3.2	<b>Discovery and optimisation of novel compou</b> P. Wege, Syngenta Jealott's Hill International F
10.20	Ready for your close up? How to be a better science communicator and an engaging public speaker Organiser: Femi Oke, Moderate The Panel (USA)	11.00	3.3.3	Monoterpenoid esters as long-lasting spatial J.S. Klimavicz, Iowa State University, USA
	How good are you at disseminating your work for the general public, policy makers and non-experts? Can you break it down, make it accessible and convey your passion and purpose clearly and without	11.20	3.3.4	<b>Synergies between insecticide and parasitic</b> A. Plant, MSD Animal Health Innovation GmbH
	jargon? If you need some guidance with communication skills this practical session will help. It's designed to share and try out advice and tools that can be used immediately to feel more comfortable on stage and in interview situations.	11.40	3.3.5	Antiparasitic dinitrile compounds for fly cont N. Huwyler, BASF SE, Germany
	Preparation is the key to being a confident speaker. Please come ready to share a five minute story about your work or working life with the session. You can submit questions about specific communication challenges you have in advance to therealfemioke@gmail.com	12.00	3.3.6	Development of highly efficient plant virus d and NK0333 H. Song, Nankai University, China
12.20	Lunch	12.20	3.3.7	<b>Discovery of novel antiviral agents based on</b> Z.W. Wang, Tianjin Normal University, China
13.00	Field Excursions	12.40		Lunch
		13.00		Field Excursions
13.30-15.30	ECPA SESSION 1: Latest regulatory developments			

- 15.30-16.15 **Break**
- 16.15-18.15 ECPA SESSION 2: Update on AS evaluation process
- 18.15-19.15 Break
- 19.15-20.15 ECPA Evening debate: What model for European agriculture?





# hancement and animal parasite, nematode and

rotection AG, Switzerland & Iniversity, China

# n and the ZERO by 40 Initiative

**bounds for the control of anopheline vectors of malaria** al Research Centre, UK

# tial mosquito repellents

**ticide research: An evolving success story** IbH, Germany

ontrol in cattle

disease prevention and control drug candidate NK0209

on marine natural products

Monday	Tuesday	Wednesday	Thursday	Friday	Posters	Monday	Tuesday	Wednesday
		Jan Van Eyck						Hubert Van Eyck

10.20       2.5.1       The potential of biostimulants and plant monitoring tools to reduce water and nutrient consumption in horticulture J. Viaene, PCS Ornamental Plant Research, Belgium       10.20       7.6.1       Microbial catabolism of chemical pesticides: J. Jiang, Nanjing Agricultural University, Chir J.C. Cabrera, Fyteko SA, Belgium         10.40       2.5.2       How to help crops tolerate better abiotic stress thanks to the use of biostimulants? J.C. Cabrera, Fyteko SA, Belgium       10.40       7.6.2       Bioaugmentation in drinking water treatmen B. Horemans, KULeuven, Belgium         11.00       2.5.3       BIO2BIO - From organic wastes to biostimulants and biopesticides D. Geelen, University, Belgium       11.00       7.6.3       Mapping microbial degradation of pesticides K.M. Nowak, Technische Universität Berlin, G         11.20       2.5.4       Nutrient-unlocking biostimulants, managing the complex regulatory path to commercialization       11.00       7.6.3       Mapping microbial degradation of pesticides K.M. Nowak, Technische Universität Berlin, G			syngenta.	2.5 Biostimulants Chair: Maarten Ameye, Ghent University, Belgium		++++ ENVIGO	7.6 Advances in pesticides biodegradation regulatory issues
10.402.5.2How to help crops tolerate better abiotic stress thanks to the use of biostimulants? J.C. Cabrera, Fyteko SA, BelgiumJ. Jiang, Nanjing Agricultural University, Chir Bioaugmentation in drinking water treatment B. Horemans, KULeuven, Belgium10.407.6.2Bioaugmentation in drinking water treatment B. Horemans, KULeuven, Belgium11.002.5.3BIO2BIO - From organic wastes to biostimulants and biopesticides D. Geelen, University, Belgium11.007.6.3Mapping microbial degradation of pesticides K.M. Nowak, Technische Universität Berlin, G11.202.5.4Nutrient-unlocking biostimulants, managing the complex regulatory path to commercialization J. Verhaert, Bayer Crop Science, Belgium11.207.6.4The degradation of crop protection products N. Baudin, Syngenta Ltd., UK11.402.5.5Managing abiotic stress impacts on crop yield and quality with high performance biostimulant products C. Repiso, Trade Corporation International, Spain11.4012.20Lunch12.002.5.6The PathoViewer: An automated phenotyping platform M. Ameye, Ghent University, Belgium13.00Field Excursions	10	0.20	2.5.1				Chairs: Fabrice Martin-Laurent, Institut Nationa Dimitrios Karpouzas, University of Thes
J.C. Cabrera, Fyteko SA, Belgium10.407.6.2Bioaugmentation in drinking water treatment B. Horemans, KULeuven, Belgium11.002.5.3BIO2BIO - From organic wastes to biostimulants and biopesticides D. Geelen, University, Belgium11.007.6.3Mapping microbial degradation of pesticides K.M. Nowak, Technische Universität Berlin, G 				J. Viaene, PCS Ornamental Plant Research, Belgium	10.20	7.6.1	Microbial catabolism of chemical pesticides: 1 J. Jiang, Nanjing Agricultural University, China
11.002.5.3BIO2BIO - From organic wastes to biostimulants and biopesticides D. Geelen, University, Belgium11.007.6.3Mapping microbial degradation of pesticides K.M. Nowak, Technische Universität Berlin, G K.M. Nowak, Technische Universität Berlin, G 	1(	0.40	2.5.2		10.40	7.6.2	Bioaugmentation in drinking water treatment
11.202.5.4Nutrient-unlocking biostimulants, managing the complex regulatory path to commercialization J. Verhaert, Bayer Crop Science, Belgium11.207.6.4The degradation of crop protection products N. Baudin, Syngenta Ltd., UK11.402.5.5Managing abiotic stress impacts on crop yield and quality with high performance biostimulant products C. Repiso, Trade Corporation International, Spain11.40Discussion12.002.5.6The PathoViewer: An automated phenotyping platform M. Ameye, Ghent University, Belgium12.0013.00Field Excursions	1′	1.00	2.5.3	· ·			B. Horemans, KULeuven, Belgium
J. Verhaert, Bayer Crop Science, Belgium11.207.6.4The degradation of crop protection products N. Baudin, Syngenta Ltd., UK11.402.5.5Managing abiotic stress impacts on crop yield and quality with high performance biostimulant11.40Discussion11.402.5.6The PathoViewer: An automated phenotyping platform M. Ameye, Ghent University, Belgium12.00Lunch12.002.5.6The PathoViewer: An automated phenotyping platform M. Ameye, Ghent University, Belgium13.00Field Excursions	4	1 2 0	254		11.00	7.6.3	Mapping microbial degradation of pesticides K.M. Nowak, Technische Universität Berlin, Ge
11.402.5.5Managing abiotic stress impacts on crop yield and quality with high performance biostimulant products C. Repiso, Trade Corporation International, Spain11.40Discussion12.002.5.6The PathoViewer: An automated phenotyping platform M. Ameye, Ghent University, Belgium12.0013.00Field Excursions	1	1.20	2.3.4		11.20	7.6.4	The degradation of crop protection products i
C. Repiso, Trade Corporation International, Spain12.0012.20Lunch12.002.5.6The PathoViewer: An automated phenotyping platform M. Ameye, Ghent University, Belgium13.00Field Excursions	1′	1.40	2.5.5		11 4 0		
12.002.5.6The PathoViewer: An automated phenotyping platformM. Ameye, Ghent University, Belgium13.00Field Excursions							
	1	2.00	2.5.6				
	1:	2.20			13.00		

13.00 Field Excursions





# tion and metabolism: Mechanisms, applications and

onal de la Recherche Agronomique, France & hessaly, Greece

s: The mechanism and its potential application iina

ent plants for the treatment of micropollutants

**es with stable isotope probing** Germany

ts in Brazilian soils

Monday	Tuesday	Wednesday	Thursday	Friday	Posters	Monday	Tuesday	١	Wednesday
		Van der Goes							Bauwens

<b>U = BA</b> Vie create che	BASF a chemistry	<b>3.3 New chemistries targeting crop enhancement and animal parasite, nematode and vector control (II)</b>		S Ashland	<b>4.4 Approaches of reducing offset drift ar</b> <b>Chair:</b> Ronald Vermeer, Bayer CropScience, Ge
10.20 3.3	.3.8	Chairs: Sven Mangelinckx, Ghent University, Belgium & Peter Jeschke, Bayer AG, Germany Design, synthesis and biological evaluation of strigolactones derivatives for crop enhancement	10.20	4.4.1	<b>Pesticide dust drift from seed drilling - Part 1:</b> D. Foqué, Flanders research institute for agricu
10.20 5.2	.3.0	applications A. De Mesmaeker, Syngenta Crop Protection, Switzerland	10.40	4.4.2	Reducing off-target losses by formulation des W. Abraham, Bayer Crop Science, USA
10.40 3.3	.3.9	<b>Use of synthetic plant defense elicitors as reduced-risk pesticide alternatives</b> T. Eulgem, University of California, USA	11.00	4.4.3	Increased spray deposition and reduced spray J.C. van de Zande, Wageningen University and
11.00 3.3	.3.10	<b>Discovery and optimization of 3(2H)-pyridazinone derivatives as novel plant activators</b> Y. Xu, East China University of Science and Technology, China	11.20	4.4.4	<b>Drift reduction: What determines the drop size</b> D. Bonn, University of Amsterdam, The Netherla
11.20 3.3	.3.11	<b>CEDROZ<sup>®</sup>, new terpene nematicide against root knot nematode on Solanaceae and cucurbits</b> E. Medico, Eastman Chemical B.V., Belgium	11.40	4.4.5	<b>Understanding natural and social capital valu</b> <b>landscapes</b> J. Lammerant, Arcadis, Belgium
11.40 3.3	.3.12	Design, structural derivation and nematicidal activities of 1,2,3-Benzotriazin-4-one derivatives	12.00		Discussion
		X. Xu, East China University of Science and Technology, China	12.20		Lunch
12.00 3.3	.3.13	<b>A novel class of priming agents with activity against fungi and nematodes</b> T. Kyndt, Ghent University, Belgium	13.00		Field Excursions
12.20 3.3	.3.14	Mulching efficacy and effect on soil microbial health of a sprayable, biodegradable polymeric mulch C.K. Borrowman, Monash University, Australia			

12.40 Lunch

13.00 Field Excursions





# and the use of multifunctional field margins Germany

**1: The role of dust properties and sowing equipment** iculture, fisheries and food (ILVO), Belgium

design – Case studies

**bray drift of multiple row orchard sprayers** and Research, The Netherlands

**size in sprays, and how can it be changed with additives?** erlands

aluation of multifunctional field margins in agricultural

	Monday	Tuesday	Wednesday	Thursday	Friday		Posters		Monday		Tuesday	Wednesday			
			Baekeland I									Baekeland II			
		Chairs: Jose Diana	<b>tical techniques to det</b> di Mavungu, Ghent Univer	sity, Belgium &		<b>9.3 Insecticides: Mode of action an</b> <b>Chairs:</b> Ralf Nauen, Bayer AG, German									
10.20	6.3.13	Advances in analyti	, University of Porto, Portu <b>ical instrumentation for p</b> a, University of Almería, Sp	esticide residue	testing		10.20	9.3.1	iverme	<b>critical determinant of the sensitivity of ligan</b> ermectin Ozoe, Shimane University, Japan					
11.00	6.3.14	particles	ction in fruits and vegeta	-	n printed electro	d magnetic	10.40	9.3.2	<b>Discovery of a novel class of insect ryanodine</b> D. Cordova, FMC Agricultural Solutions, USA						
11.20		Ensuring food safet	ty through analytical veri ity of the Republic, Urugua	ication of pestici	des degradation			11.00	9.3.3	<b>Towards next generation acaricides for reduct</b> T.D. Anderson, University of Nebraska, USA					
11.40		Analytical forum: O challenges	pportunity for the audien	ce to ask experts	s in the field abo	ut anal	ytical issues and	11.20	9.3.4			e <b>chanism of actio</b> r California, USA	n of nov	9	
		Analytical forum mo	derators: A. Fernández-Al Niladri Chatterjee, Supradi			vungo,	H. Heinzen,	11.40	9.3.5			l <b>ies on spiropidion</b> enta Jealott's Hill In	ternatio	n	
12.20	)	Lunch						12.00	9.3.6		e <b>rface of liga</b> ı a, Kindai Univ	<b>nd gated ion chann</b> ersity, Japan	els: A h	ic	
13.00	1	Field Excursions						12.20	9.3.7			of isocycloseram: A Ingenta Crop Prote			
								12.40	)	Lunch					

13.00

**Field Excursions** 





# istance (I)

omas Van Leeuwen, Ghent University, Belgium

and-gated chloride channels to fluralaner and

ne receptor activators, pyrrole-2-carboxamides

icing arthropod-borne disease in honey bee colonies

ovel mosquitocidal toxins from Clostridia-like strains

tional Research Centre, UK

# hidden target of insecticides

**el isoxazoline insecticide** UK

	Monday	Tuesday	Wednesday	Thursday	Friday		Posters		Monday		Tuesday	Wednesday	
			Baekeland III									Ghislain I	
L													
	++++ ENVIGO		athematical modellin	· ·		exposi	ıre				cilitating tra	de – Need for harmoniz	
		Chairs: Laure Mamy, INRA, France & Piet Seuntjens, Ghent University, Belgium										CropLife, Belgium	
10.20	7.10.1	New developments i	n aquatic exposure ass	essment of pestic	ides in Latin Am	erica							
		B. Jene, BASF SE, Ge	ermany					10.2	0	Openin	g remarks		
										W. Mey	er, Croplife, B	elgium	
10.40	7.10.2	The practical use of g	geospatial data in envi	ronmental risk ass	sessment to surfa	ace wat	ers for plant	t					
		protection products i	in the EU					10.3	5 1.5.1	The EU	MRL setting	policy and its impact on t	
		C. Hazlerigg, Envirese	earch Ltd., UK							G. Garc	on. BASF SE.	Germany	

1(	0.40	7.10.2	The practical use of geospatial data in environmental risk assessment to surface waters for plant			
			protection products in the EU	10.35	1.5.1	The EU MRL setting policy and its impact on tra
			C. Hazlerigg, Enviresearch Ltd., UK			G. Garçon, BASF SE, Germany
11	.00	7.10.3	A probabilistic approach to exposure assessment for downwind deposits of spray drift H.J. Holterman, Wageningen University and Research, The Netherlands	10.50	1.5.2	<b>The next steps in the global harmonization of m</b> J. Baron, IR-4 Project, USA
11	.20	7.10.4	A systems approach to modeling pesticide transport in a pacific northwest watershed J.J. Jenkins, Oregon State University, USA	11.05	1.5.3	Global zoning and exchangeability of field trial differences in pesticide residues across geogra
11	.40	7.10.5	Development of new national scenarios for South EU Zone countries for higher tier predicted			D.J. Miller, U.S. Environmental Protection Agency,
			environmental concentrations in groundwater and surface water following pesticide application to rice paddies G. Fragkoulis, Aeiforia S.r.I, Italy	11.20	1.5.4	<b>Can import tolerances promote harmonizing of</b> E. Keller, Knoell Germany GmbH, Germany
				11.35	1.5.5	New tool to accelerate harmonization of MRLs g
12	2.00	7.10.6	Pesticide dust drift from seed drilling. Part 2: CFD modelling P. Verboven, KU Leuven, Belgium			P. Perez, Agrobase-Logigram, France
				11.50	1.5.6	Facilitating trade – How to accelerate harmoniz
12	2.20		Lunch			A.B. Oliveira, Bryant Christie Inc., USA
13	3.00		Field Excursions	12.05	1.5.7	Harmonization opportunities for missing MRL C. Tiu, Corteva Agrisciences, USA
				12.20		Lunch
				13.00		Field Excursions







# nization of global MRLs

trade

minor use MRLs

ial residues between zones: Are there systematic raphies? ncy, USA

of MRLs and global trade?

Ls globally

nization of MRLs globally

Monday Tuesday Wednesday Thursday Frida	Posters
Ghislain II	

**1.2 Lifecycle product stewardship – Linking all aspects of the stewardship arc** Joint IUPAC-ECPA Session

Chair: Andrew Ward, CropLife International, Belgium

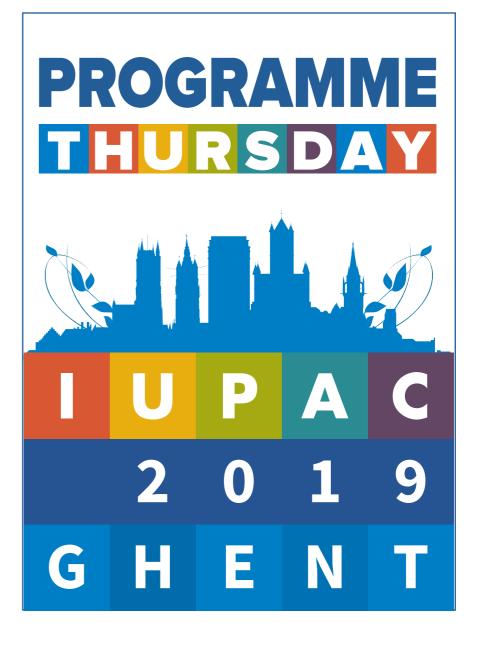
# 10.20 **Opening remarks**

A. Ward, Croplife, UK

- 10.40 **1.2.1** Agrochemical industry development, trends in R&D and the impact of regulation M. Phillips, Agbioinvestor, UK
- 11.00
   1.2.2
   Testing in support of agrochemical management and stewardship An Australian perspective

   A.L. Tyler, Tyler Agrochemical Consulting, Australia
- 11.201.2.3The management of the crop protection industry's container management programs<br/>E. Jones, ERM, Belgium
- 11.401.2.4Product stewardship: A virtuous circle<br/>C. Langrand-Lerche, Bayer AG, Germany
- 12.00 **1.2.5** Management of crop protection packaging in Europe: Status and key challenges for sustainable and effective container management S. Byrde, CMS Project Consultant, ECPA, Belgium
- 12.20 Lunch
- 13.00 Field Excursions





# Programme at a Glance - Thursday, May 23

		Auditorium	Van Rysselberghe Room	Jan Van Eyck Room
08.00	Poster hang-up Presentations upload		_	
08.30		Plenary Talks H. Ngwenya V. Andriukaitis		
09.40		Coffe	е	
10.20	Parallel Sessions	ECPA - Session 3: New trends and opportunities for the future	3.4 New chemistries targeting weed control (½)	2.7 Natural product- based pest management
12.20/12.40		Lunc	h	
12.45 - 14.15	Lunch Workshop			
13.00	Poster Session	Poster Pre	esentations of Top	pics 3 and 4
14.15				
13.30-15.30		ECPA - Session 4: Zonal		
14.30-16.30	Parallel Sessions	workshop	3.4 New chemistries targeting weed control (2/2)	2.1 RNA-Based biocontrol 2.9 and 2.10 genetic
				manipulation of pests and crops & 2.7 Natural product-based pest management
16.30		Coffe	е	
17.00		N-GAGE Champions		
17.30-18.30	Debate	Communication on agroscience to the broad public		

Hubert Van Eyck Room	Van der Goes Room	Bauwens Room	Baekeland Room II	Baekeland Room III
		Coffee		
7.9	4.5	6.5	9.3	1.6
Mitigation and management of pesticide emissions to the environment	Innovative and green formulation technologies	Advances in dietary risk assessment and decision making	Insecticides: Mode of action and resistance (2/3)	Risk assessment vs. hazard based decisio making
		Lunch		
		Cumulative risk assessment for pesticides: Which way to go ?		
	Poster Pre	sentations of Top	pics 3 and 4	
Poster Award Ceremony (Topics 2, 6 & 9)				
3.5 New approaches to crop protection products: discovery tools, green chemistry (½)	4.6 Seed treatments and innovative treatment technologies	6.4 MRL and International guidelines/ standards/ regulations for consumer protection	9.3 Insecticides: Mode of action and resistance (3/3)	1.7 Communicatin science in an era of fake news
		Coffee		

Monday	Tuesday	Wednesday	Thursday	Friday	Posters	Monday	Tuesday	Wednesday	
			Auditorium						

# **Plenary Talks**

08.30	<b>PERFECT UPportunities for REALsearch in AgriCOOLture</b> Hlami Ngwenya, University of Free State, South Africa and International Development Consultant
09.05	<b>The EU's plant protection policy: Lessons learned and next steps</b> Vytenis Andriukaitis, EU Commissioner on Food & Health, Health & Food Safety - European Commission, Lithuania
09.40-10.20	Coffee Break
10.20-12.20	ECPA - Session 3: New trends and opportunities for the future
12.20-14.30	Lunch, Lunch Workshop and Poster Session
13.30-1630	ECPA - Session 4: Zonal workshop
16.30-17.00	Coffee Break
17.00-17.30	N-GAGE Champions Chair: Fiona Chandler, Coordinator, IUPAC Next Generation Programme
Crelan	Bruna Czarnobai De Jorge, Brazil, studying at the Technical University of Darmstadt and Julius Kühn- Institute, Germany Antonette Ncube, Botswana, studying online with the University of South Wales, UK Eric Jhon Cruz, Philippines, studying at the University of the Philippines Los Baños (UPLB), Philippines Ropo Ayotunde, Nigeria, studying at the University of Ilorin, Nigeria Simon Appeltans, Belgium, Doctoral Fellow Precision Soil & Crop Engineering, Faculty of Bioscience Engineering at Ghent University, Belgium
17.30-18.30	Debate
	<b>Communication on agro-science to the broad public</b> Joost Dessein, Ghent University, Belgium Aimee Hood, Bayer CropScience, USA Ilaina Khairulzaman, Sense about Science, Ireland Dick Veerman, Foodlog, The Netherlands



		Changling Liu, Sinochem International C
10.20	3.4.1	The discovery of aryl pyrrolidinone anilides: A dihydroorotate dehydrogenase T.P. Selby, FMC Agricultural Solutions, USA
10.40	3.4.2	Luximo <sup>™</sup> herbicide – Rediscovering a dormant M.C. Witschel, BASF SE, Germany
11.00	3.4.3	<b>Discovery and mode of action of cyclopyrimor</b> M. Shino, Mitsui Chemicals Agro Inc., Japan
11.20	3.4.4	<b>A new herbicide mode of action from a bioher</b> S.O. Duke, USDA, USA
11.40	3.4.5	<b>Resistance-gene directed discovery of a natura</b> Y. Tang, University of California, USA
12.00	3.4.6	<b>Towards a mechanistic understanding of IGPD</b> R. Viner, Syngenta, UK
12.20	3.4.7	<b>Isoxazolopyridines - A novel chemical cluster a</b> T.H. Seitz, BASF SE, Germany
12.40-14	1.30	Lunch, Lunch Workshop and Poster Session
	<b>BASF</b> We create chemistry	<b>3.4 New chemistries targeting weed contr</b> <b>Chairs:</b> Matthias Witschel, BASF SE, Germany &
14.30	<b>BASF</b> We can be channed of the control of the cont	
14.30 14.50	We create chemistry	Chairs: Matthias Witschel, BASF SE, Germany & Discovery of new 4-hydroxyphenylpyruvate dia
	3.4.8	Chairs: Matthias Witschel, BASF SE, Germany & Discovery of new 4-hydroxyphenylpyruvate die G.F. Yang, Central China Normal University, Chir Tirexor <sup>™</sup> – Design of a new resistance breaking
14.50	3.4.8 3.4.9	Chairs: Matthias Witschel, BASF SE, Germany & Discovery of new 4-hydroxyphenylpyruvate die G.F. Yang, Central China Normal University, Chin Tirexor™ – Design of a new resistance breakin M. Witschel, BASF SE, Germany Rinskor™ active herbicide a new environmenta aquatic environments
14.50 15.10	3.4.8 3.4.9 3.4.10	<ul> <li>Chairs: Matthias Witschel, BASF SE, Germany &amp;</li> <li>Discovery of new 4-hydroxyphenylpyruvate die</li> <li>G.F. Yang, Central China Normal University, Chin</li> <li>Tirexor™ – Design of a new resistance breaking</li> <li>M. Witschel, BASF SE, Germany</li> <li>Rinskor™ active herbicide a new environmenta aquatic environments</li> <li>P. Havens, Corteva AgriScience, USA</li> <li>Investigating C-H activation chemistry of N-ph</li> </ul>
14.50 15.10 15.30	3.4.8 3.4.9 3.4.10 3.4.11	<ul> <li>Chairs: Matthias Witschel, BASF SE, Germany &amp;</li> <li>Discovery of new 4-hydroxyphenylpyruvate die</li> <li>G.F. Yang, Central China Normal University, Chin</li> <li>Tirexor™ – Design of a new resistance breaking</li> <li>M. Witschel, BASF SE, Germany</li> <li>Rinskor™ active herbicide a new environmenta aquatic environments</li> <li>P. Havens, Corteva AgriScience, USA</li> <li>Investigating C-H activation chemistry of N-ph</li> <li>P.L. Sharpe, FMC Agricultural Products, USA</li> <li>Discovery of novel uracil herbicide by using interval</li> </ul>
14.50 15.10 15.30 15.50	3.4.8 3.4.9 3.4.10 3.4.11 3.4.12 3.4.13	<ul> <li>Chairs: Matthias Witschel, BASF SE, Germany &amp;</li> <li>Discovery of new 4-hydroxyphenylpyruvate die</li> <li>G.F. Yang, Central China Normal University, Chin</li> <li>Tirexor™ – Design of a new resistance breaking</li> <li>M. Witschel, BASF SE, Germany</li> <li>Rinskor™ active herbicide a new environmenta aquatic environments</li> <li>P. Havens, Corteva AgriScience, USA</li> <li>Investigating C-H activation chemistry of N-ph</li> <li>P.L. Sharpe, FMC Agricultural Products, USA</li> <li>Discovery of novel uracil herbicide by using im</li> <li>C. Liu, Shenyang Sinochem Agrochemicals R&amp;D</li> <li>Herbicidal activity and application of 1- (furan-broadleaf weeds</li> </ul>



Friday

Posters

3.4 New chemistries targeting weed control (I) Chairs: Sven Mangelinckx, Ghent University, Belgium & Changling Liu, Sinochem International Corporation, China

A new mode-of-action herbicide class that inhibits

nt molecule

orate, a new paddy rice herbicide

erbicide component, spliceostatin C

ural product herbicide with a new mode of action

PD – A potential herbicide target

er and a new mode of action for dicot weed control

# ntrol (II)

/ & Robb DeBergh, FMC Agricultural Solutions, USA

dioxygenase inhibitors as potential herbicides hina

king PPO-inhibitor

ntally friendly tool for weed management in rice and

phenyl azoles: Discovery of a new class of herbicides

**intermediate derivatization approach** &D Co. Ltd., China

n-2-yl) methylphosphonates as PDHc inhibitor against

han, China

	Monday		Tuesday		Wednesday	Thurso Jan V Eycl	an	Friday		Posters			Monday		Tuesday		Wednesday	,	
L	syngenta.				<mark>ed pest mar</mark> nt University, I	nagement		L	1	L	1	L	++++ ENVIGO		Carlos Rodr	iguez-F	<b>igement of</b> Rodriguez, Ur		
10.20	2.7.1		<b>onal product</b> ona, Iowa Sta		-	l repellents ag	ainst mose	quitoes of mu	ltiple g	enera		10.20	7.9.1	Sensiti		-	G, Germany <b>STICS-MAC</b> F	RO mod	
10.40	2.7.2					ect kinin analog								losses L. Mamy, INRA-AgroParisTech-Université Pa					
		-	-	-	M University,	<b>:h potentially e</b> USA	nnanced r	diostability an	a dioa	aliability		10.40	7.9.2	<b>Stimulating implementation of best mana</b> E. Pauwelyn, Inagro vzw, Belgium					
11.00	2.7.3		<b>nd microbial</b> eepagala, US			ducts with her	11.00	7.9.3	Influence and significance of point source studies										
11.20	2.7.4		ernative ager g, Agricultural			Novel insect ki	nin mimic	5							eney, Syngen	ta Ltd,	UK		
11.40	2.7.5	-	odyTM biope eroen, AgroSa		-	eneration biope	sticides					11.20	7.9.4	the MA	gPIE toolbox	(	maize fields mbH, Germa		
12.00	2.7.6		-	-	<b>l crop protect</b> nnovations, U	i <b>on agents fro</b> r SA	n novel m	icrobes				11.40		an agri	erm surface v cultural catc glia, VITO, Be	hment	nonitoring of in Belgium	f pestici	
12.20	2.7.7	-	-		o <b>f novel bio</b> University, Au	<b>pesticides: Fro</b> r stralia	n model c	ell line to targ	get inse	ects		12.00		Photod	legradation of	of chlo	<b>pyrifos, mal</b> a of Khartoum,		
12.40	-14.30	Lunch,	Lunch Works	hop an	d Poster Sess	sion						12.20	-14.30			2	d Poster Ses		
	syngenta.	produ	A-based bic ct-based pe Stephen Duke	st mar	nagement	enetic manipı	Ilation of	pests and c	rops a	nd 2.7 Natu	ral	14.15			• Award Cer	ne post	er award win	ners in t	
14.30	2.9.1		t <b>ion of candi</b> d d, USDA, USA		aize insect ar	ıd fungal resist	ance gene	es through fu	nctiona	l analysis				Ē					
14.50	2.1.8	Study		ation r		in developmer	t of Tribo	lium castaneı	ım				<b>BASF</b> We create chemistry		Sven Mange	elinckx,	<b>Crop protec</b> Ghent Unive In Agricultura	ersity, Be	
15.10	2.1.9		-	-	<b>nes, non-targ</b> Göttingen, Ge	<b>et effects and s</b> rmany	electivity	issues				14.30	3.5.1	produc	ts		<b>y principles</b> i science, USA		
15.30	2.7.8	assign	ment of NRP	S	<b>al peptide (NF</b> Viollette, Frar	<b>RP) identificatio</b> nce	n: Kendrio	ck mass defe	t for m	olecular forr	nula	14.50	3.5.2	Proces		n of m	acrocyclic pi		
15.50	2.7.9	sativur	n l.)		-	<b>I and biotechn</b> i Krakow, Poland	-	s in the prote	ction of	f garlic (Alliu	m	15.10	3.5.3	produc			<b>of protein bi</b> ce	iosynth	
16.10	2.7.10	Discov agricul	ery of antimi tural protect	crobial ion	activity of na	atural products s and Technolo	from blac		metia i	llucens for		15.30		New ap hydrox	oproach to a yoctanoyl-l-	bacter homos	ial causative erine lactone iversity, Japa	e, a trop	
16.30	-17.00	Coffee	Break									15.50		develo	-	ustaina	sive model fo Ible use of po Iork, UK		
												16.10	3.5.6	Nitroge		n: A de	termining fa	ctor for	

16.30-17.00

Coffee Break

Thursday	
Hubert Van	
Eyck	

		_	_	
-	rı	С	а	$\mathbf{V}$
		u	u	y

icide emissions to the environment ity of Costa Rica, Costa Rica &

# odel to identify cropping practices reducing pesticide

s-Saclay, France

ement practices to reduce water contamination by PPPs

ollution – Observations from industry monitoring

nsideration in environmental risk assessment as part of

ticides to evaluate the impact of mitigation measures in

**n and dimethoate by sunlight in the Sudan** an

in topics 2.6 & 9

# products: Discovery tools, green chemistry (I) Belgium & earch Institute, India

responsible design of crop protection processes and

amide fungicide X507

thesis: Towards the development of modern agchem

disease and weed controls, using N-3opolone biosynthetic activator for burkholderia plantarii

sticide activity in soils designed to guide the des

for efficiency of plant defense elicitors?

	Monday	Tuesday	Wednesday	Thursday	Friday	Posters		Monday	Tuesday	Wednesday	
				Van der Goes							
	Ashland olivoys solving	<b>4.5 Innovative and g</b> <b>Chair:</b> Pieter Van der W		-					6.5 Advances in d Chairs: Liesbeth Jac Katrin Frank	-	ersity, Be
10.20	4.5.1	Simultaneously encaps M. Vinceković, Universi	ty of Zagreb, Croatia		10.2		<b>An overview of the EFSA-RIVM partnershi</b> J. van Klaveren, RIVM, The Netherlands				
10.40	4.5.2	Green chemistry: A too M. Moseley, Yordas Gro		ıstainable agrochen	nicals		11.00		<b>Chemicals in food: critical issues for less th</b> A. Moretto, International Centre for Pesticide		
11.00	4.5.3	Fenpicoxamid (INATRE N. Foster, Corteva Agris	•	tion innovation to n	naximise efficac	У	11.20		Concept of risk-ben beneficial effect on	-	-
11.20	4.5.4	<b>Formulation challenge</b> U. Malang, BASF SE, Ge		or microbial crop pr			L. Jacxsens, Ghent l		to mult		
11.40	4.5.5	<b>Plant parasitic nemato</b> S.A. Khan, North Carolin	•		nrough wrap & p	plant technology	11.40		Investigation of nicl M. Babaahmadifood		
		- ,	, , , , , , , , , , , , , , , , , , ,				12.0	0 6.5.5	Chronic and acute o	lietary risk assessn	nent for

Lunch, Lunch Workshop and Poster Session 12.20-14.30

Discussion

12.00

- Stepan 💲 🏹 Ashland **4.6 Seed treatments and innovative treatment technologies** Chair: Pieter Verboven, KU Leuven, Belgium
- 14.30 4.6.1 Novel polymeric dispersants for application in suspension concentrate and seed coating formulations J. Sheehan, Stepan Company, USA
- Coating seeds with electrospun polymeric nanofibers for crop protection 14.45 4.6.2 S.A. Khan, North Carolina State University, USA
- 15.00 4.6.3 Encapsulation – Easier said than done – From concepts to products M. Bratz, BASF SE, Germany
- Modelling of microemulsion phase behavior for agricultural applications using Hydrophilic-15.15 4.6.4 Lipophilic Deviation Net Average Curvature (HLD-NAC) approach M.P. Tate, The Dow Chemical Company, USA
- Seed coating polymers for enhanced performance 15.30 4.6.5 S. Kamin, Ashland Inc., USA
- Structuring of fertilizer compatible agrochemical suspensions 16.00 4.6.6 H. Rieffe, Croda Inc., USA
- 16.30-17.00 **Coffee Break**



<b>6.4 MRL and International guidelines/ st</b> <b>Chairs:</b> Katrin Franke, German Federal Institu Carmen Tiu, Corteva AgroScience, US

Lunch, Lunch Workshop and Poster Session

14.30 6.4.1 A. Moretto, International Centre for Pesticides and Health Risk Prevention (ICPS) 6.4.2 Enhancing food security and food safety 14.50 C. Tiu, Corteva Agriscience, USA 15.10 field through the food chain P. Perez-Fernandez, Agrobase-Logigram, France 6.4.4 Why is it so difficult to harmonise MRLs? 15.30 C.A. Harris, Exponent International Ltd, UK

the Argentinean case

Lunch Workshop

12.20-14.30

12.45-14.15

- 6.4.5 Two become one The revision of guidelines SANCO/3029/99 and SANCO/825/00 15.50 J. Heidler, German Federal Institute for Risk Assessment, Germany
- 16.10 6.4.6 J.L. Clark, Agchem Project Consulting, UK

16.30-17.00 Coffee Break

Thursday **Bauwens** 

Friday

Posters

# and decision making Belgium & Ite for Risk Assessment, Germany

# on cumulative risk assessment

# an life-time exposure risk assessment and Health Risk Prevention (ICPS)

# ne impact of cumulative exposure to pesticides versus it and vegetable intake

es in foods and its exposure assessment ium

# 6.5.5 Chronic and acute dietary risk assessment for pesticide residues in food - Methods and results from

D.A. Maggioni, National University of Littoral, Argentina

Cumulative risk assessment for pesticides: Which way to go? Organisers: Jacob Van Klaveren (RIVM), Liesbeth Jacxsens (UGent), Andreja Rajkovic (UGent)

> tandards/regulations for consumer protection ute for Risk Assessment, Germany & JSA

# The work of the international expert committees of FAO/WHO JECFA and JMPR

# 6.4.3 New tool to improve communication of treatment information of crop protection products from the

Regulatory consultancy perspective on EU MRL setting for apiary products

	Monday		Tuesday		Wednesday		Thursday aekeland II		Friday		Posters			Monday		Tuesday		Wednesday	
Į	B	9.3 In:	secticides: N	] Node c	of action and	d resista	ance (II)	L					L		 1.6 Ris	k assessme	nt vs.	hazard bas	] ed dec
	BAYER	Chairs: Thomas Van Leeuwen, Ghent University, Belgium & Ralf Nauen, Bayer AG, Germany														Mauricio Rodr			
10.20	9.3.8	<b>Dissecting insecticide resistance via genetic manipulation and genome modification in Drosophila</b> J. Vontas, Institute of Molecular Biology and Biotechnology, Greece											10.20	10.20Opening remarksM. Rodriguez, CropLife Latin America,					olombia
10.40	9.3.9	Molecular mechanisms of resistance to insecticidal acetyl-CoA carboxylase inhibitors in Bemisia tabaci R. Nauen, Bayer AG, Germany											10.40 <b>1.6.1 Agrochemical Industry Development, tree</b> M. Phillips, Agbioinvestor, UK					rends i	
11.00	9.3.10		ring of mutat			sistance t	to insecticide	es on l	Myzus persi	cae in	potato crops	in	11.00			<b>g risk mitiga</b> t riguez, CropL			
			isen, Walloon	Agricu	ltural Researd	ch Centre	e, Belgium						11.20			<b>n pesticide l</b> Zuben, ANDI	-		ption of
11.20	9.3.11	Cuticle alterations and P450 detoxification are associated with deltamethrin and/or DDT resistance in Anopheles arabiensis populations from Ethiopia W. Dermauw, Ghent University, Belgium										ice	11.40	1.6.4	Risk as making	sessment at process r, U.S. Enviror	the US	EPA's Office	
11.40	9.3.12	Molecular characterization of a novel target-site mutation in ABCC2 transporters in Cry1F resistant fall armyworm from Brazil D. Boaventura, University of Bonn, Germany										nt	12.00	1.6.5	An inte decisio	grated appro	oach to	human heal	Ith prot
12.00	9.3.13	Insecticide resistance in Tuta absoluta: Novel cases and new mechanisms E. Roditakis Hellenic Agricultural Organisation - 'Demeter', Greece											12.20			Lunch Works	-		
12.20	9.3.14	Fitness costs of key point mutations that underlie acaricide target site resistance in the two spotted spider mite Tetranychus urticae S. Bajda, Ghent University, Belgium									tted				<b>mmunicatin</b> David Zaruk, (				
12.40	-14.30	Lunch, Lunch Workshop and Poster Session								14.30			<mark>g remarks</mark> k, Odisee Un	iversity	College, Bel	lgium			
	BAYER R R		Ralf Nauen, Biotechnolo	Bayer	AG, Germany			ute of	Molecular Bi	ologya	and		14.40			<b>g the press re</b> don, Science	•		
14.30	9.3.15	-	challenges in avioral modifi		-		-	als, wit	th special er	nphasi	s on the virt	Jes	14.55	1.7.2		<b>g fake news</b> Veiss, ZN Cor		, Belgium	
14.50	9.3.16		ımmel, J. Lieb <b>ing for new i</b> ı	-	-		-	3					15.10		change	u <mark>nicating haz</mark> e in human ju valho, Knoell	dgeme	nt	
15.10	9.3.17		elle, Universit	-	-		fly control a	and pu	tative mode	of act	ion relevant	to	15.25			<b>Crop Science</b> , Bayer AG, G			trust th
		-	gated ion cha University of		i at Manoa, U	JSA							15.40			es for better tor: D. Zaruk,			
15.30	9.3.18	Insecticidal and GABA antagonist activities of -BHC analogues on which fluorine atom (F), chlorine one (CI) or methyl radical (CH3) are additionally attached K. Tanaka, Kindai University, Japan								ine	16.30	-17.00	Coffee						
15.50	9.3.19		terisation of M., Syngenta						la xylostella	using	CRISPR/Cas	9							
16.10	9.3.20		<b>imid affects i</b> n ng, Zhejiang U	-		on throug	h serotonin	recept	tors										
16.30	-17.00	Coffee	Break																

Thursday	
Baekeland III	

Friday

Posters

ecision making

oia

bia

ds in R&D and the impact of regulation

uthorities in Latin American countries Ibia

of risk assessment

Pesticide Programs: Informing an effective decision-

ncy, USA

rotection for chemical evaluation and risk assessment

f **fake news** ge, Belgium

tection – The influence of transparency and concept

ny

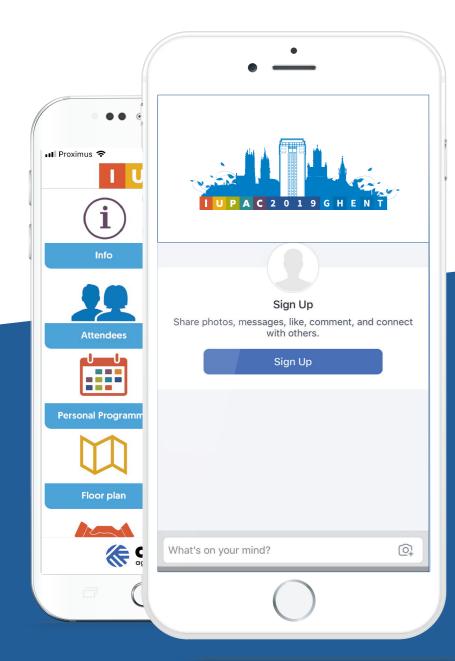
through transparency

d-table discussion

ge, Belgium

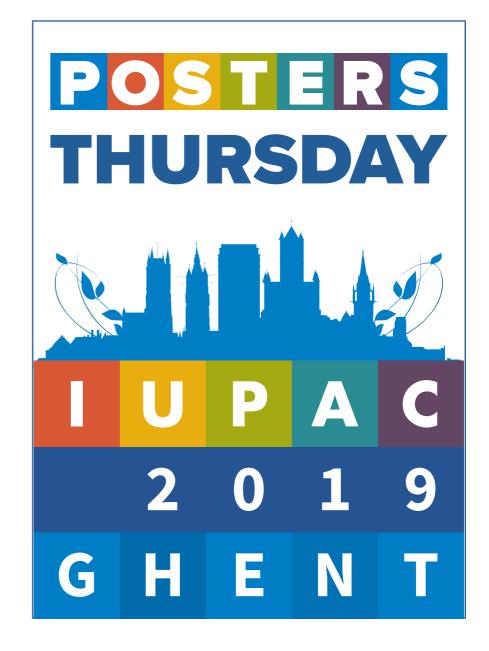


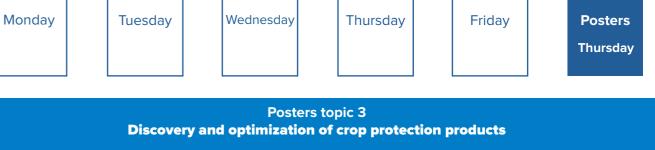






**IUPAC 2019** 





# Innovative Solutions

At Huntsman, your success is our top priority. We use our expertise in regulatory compliance, state-of-the-art science, manufacturing and global delivery systems to help you drive your business forward.



HUNTSMAN

Enriching lives through innovation

EUROPE, MIDDLE EAST AND

Huntsman Performance Products

**AFRICA** 

B-3078

Everslaan 45

Everberg, Belgium

Tel:+32-2-758-9544

Fax:+32-2-758-9946

## **AMERICAS**

Huntsman Corporation 10003 Woodloch Forest Drive The Woodlands, Texas 77380 Tel:+1-281-719-6000 Fax: +1-281-719-6055

# **ASIA PACIFIC**

Huntsman Performance Products No. 455 Wenjing Road Minhang Economic & Technological Development Zone Shanghai 200245, P.R. China Tel:+86-21-3357-6588 Fax:+86-21-3357-6543

# www.huntsman.com/performance products

JEFFSOL\*, TERMUL\*, TERMIX\*, TERSPERSE\* and TERWET\* are registered trademarks of Huntsman Corporation or an affiliate thereof in one or more, but not all, countries. © Copyright 2019. Huntsman Corporation. All rights reserved.

- The insect neuropeptide adipokinetic hormone as a test case for a "green" insecticide: P3.1 Modelling ligand-receptor interaction G. Gäde, G. Jackson University of Cape Town, South Africa
- Insecticidal isothiazolines: Managing between high biological efficacy and low photostability P3.2 K. Koerber<sup>1</sup>, P. Bindschaedler<sup>1</sup>, A.M. Mueller-Cristadoro<sup>1</sup>, F.J. Braun<sup>2</sup> <sup>1</sup>BASF SE, Germany; <sup>2</sup>BASF Corporation, USA
- P3.3 Cycloxaprid, a novel insecticide acting on insect nicotinic acetylcholine receptor Z. Li, X. Shao, X. Xu, J. Cheng, Z. Xu, X. Qian East China University of Science and Technology, China
- P3.4 Insecticidal sulfonimidamides: Synthesis and biological evaluation J. Dietz, R. Paulini, W. von Deyn BASF SE, Germany
- Inscalis<sup>®</sup>: Synthesis of metabolites and labeled derivatives P3.5 W. von Deyn<sup>1</sup>, C. Koradin<sup>1</sup>, R. Paulini, S. Sörgel BASF SE, Germany
- P3.6 A potential insect growth regulator for cockroach control: 3D-QSAR based optimization of allatostatin analogs M. Wang<sup>1</sup>, X. Li<sup>1</sup>, M. Chen<sup>1</sup>, X. Wu<sup>1</sup>, Y. Zhou<sup>1</sup>, Z. Kai<sup>2</sup>, X. Yang<sup>1</sup> <sup>1</sup>China Agricultural University; <sup>2</sup>Shanghai Institute of Technology, China
- Use of thiadiazolium mesoionic compounds as insecticides P3.7 O. Kuzmina, A. Narine, M. Weisel BASF SE, Germany
- Broflanilide A new mode of action insecticide P3.8 T. Sikuljak<sup>1</sup>, A. Arevalo<sup>2</sup>, V. Salgado<sup>2</sup>, C. Klein<sup>2</sup>, S. Willingham<sup>2</sup>, D. Liu<sup>3</sup> <sup>1</sup>BASF SE, Germany; <sup>2</sup>BASF Corporation, USA; <sup>3</sup>BASF Taiwan Ltd., Taiwan
- P3.9 3H-quinazolin-4-one-based pesticides: Mass screening helps to find novel hybrid chemotypes S. Gross, F. Kaiser, A. Narine BASF SE, Germany
- P3.10 Pocket-based lead optimization strategy to obtain chitinase inhibitors Y.W. Dong<sup>1</sup>, Q. Chen<sup>2</sup>, X. Zhao<sup>1</sup>, S. Hu<sup>1</sup>, X.J. Ma<sup>1</sup>, Y. Qing<sup>2</sup>, L. Zhang<sup>1</sup> <sup>1</sup>China Agricultural University; <sup>2</sup>Dalian University of Technology, China
- P3.11 The screening and discovery of new aphid control agent based on the structure of aphid and bee nAChRs H. Duan<sup>1</sup>, Z. Yang<sup>1</sup>, J. Zhang<sup>1</sup>, X. Lu<sup>1</sup>, S. Du<sup>1</sup>, D. Song<sup>1</sup>, B. Wang<sup>2</sup>, X. Yang<sup>1</sup> <sup>1</sup>China Agricultural University; <sup>2</sup>Chinese Academy of Agricultural Sciences, China
- P3.12 Design, synthesis and acaricidal/insecticidal activities of 2,4-diphenyloxazoline derivatives containing heteroatom-methylene group at 4-phenyl moiety Y.X. Liu, Q.M. Wang Nankai University, China
- P3.13 Virtual screening and synthetic to obtain -N-acetylglucosaminidase inhibitors S. Hu<sup>1</sup>, X. Zhao<sup>1</sup>, X. J. Ma<sup>1</sup>, Q. Yang<sup>2</sup>, L. Zhang<sup>1</sup> <sup>1</sup>China Agricultural University; <sup>2</sup>Dalian University of Technology, China

# Beyond our Quest, the New Frontier

Monday Tuesday Wednesday

> Posters topic 3 **Discovery and optimization of crop protection products**

- P3.14 Benzpyrimoxan, a novel IGR insecticide for control of rice plant hoppers Nihon Nohyaku Co., Japan
- P3.15 Neuroexcitatory insecticidal quinolines Resuscitation of an old compound class K. Koerber<sup>3</sup>, R. Vallinayagam<sup>1</sup>, H. Shind<sup>1</sup>, G. Wahl<sup>2</sup>, M.D. David<sup>2</sup>, M. Griswold<sup>2</sup>, V.L. Salgado<sup>2</sup> <sup>1</sup>BASF Chemicals India Pvt Ltd, India; <sup>2</sup>BASF Corporation, USA; <sup>3</sup>BASF SE, Germany
- P3.16 Insecticidal 3-Imino analogs of 5-amino-1,2,4-dithiazoles: Oximes, semicarbazones, and acyl hydrazones\_ C. Holyoke, S.F. McCann, M. Xu, M.H. Tong, Y. Henry, T. Briddell, S. Chittaboina, R. Vallinayagam FMC Agricultural Solutions, USA
- P3.17 Discovery of oxazosulfyl M. Ito<sup>1</sup>, Y. Nokura<sup>1</sup>, M. Takahashi<sup>2</sup>, H. Yamada<sup>3</sup>, A. Iwata<sup>1</sup> <sup>1</sup>Sumitomo Chemical Co; <sup>2</sup>Sumitomo Chemical Workers' Union; <sup>3</sup>Sumika Technoservice Corporation, Japan
- P3.18 Bioactivity guided screening of plant extracts as a source of biopesticides for insect pest management S. Khan<sup>1,2</sup>, C.N.T. Taning<sup>2</sup>, E. Bonneure<sup>2</sup>, S. Mangelinckx<sup>2</sup>, G. Smagghe<sup>2</sup>, M.M. Shah<sup>1</sup> <sup>1</sup>COMSATS University Islamabad, Pakistan; <sup>2</sup>Ghent University, Belgium
- P3.19 Spiropidion: Mode of biological activity against sucking pests A. Buchholz<sup>1</sup>, W. Reiner<sup>1</sup>, D. Stafford<sup>2</sup>, F. Hatt<sup>1</sup>, R. Senn<sup>1</sup>, C. Popp<sup>1</sup>, J. Schaetzer<sup>1</sup>, T. Pitterna<sup>1</sup>, M. Muehlebach<sup>1</sup> <sup>1</sup>Syngenta Crop Protection, Switzerland; <sup>2</sup>Syngenta Jealott's Hill International Research Centre, UK
- P3.20 Spiropidion: Chemistry and structure-activity profiles M. Muehlebach<sup>1</sup>, T. Smejkal<sup>1</sup>, W. Zambach<sup>1</sup> <sup>1</sup>Syngenta Crop Protection, Switzerland; <sup>2</sup>Synkola, Slovakia
- P3.21 The discovery of novel 1,3-disubstituted pyrazoles and their use as insecticides K. Hughes, T.F. Pahutski Jr., G.P. Lahm, O. Ahmad, D. Cordova, J. Barry, C. Keathly, K. Joraski FMC Agricultural Solutions, USA
- P3.22 Synthesis of isoxazoline bioisosters as insecticides M. El Qacemi, J. Cassayre, G. Berthon, M. Peiffer, R. Patre, D. Emery, P. Renold, F. Barreteau Syngenta Crop Protection, Switzerland
- P3.23 Asymmetric synthesis and quantitative structure–activity relationship of tetrahydroquinolines as potent ecdysone receptor ligands T. Yokoi, M. Ueno, Y. Nakagawa, H. Miyagawa Kyoto University, Japan
- P3.24 Synthesis and acaricidal activity of new 3-haloalkylsulfinyl-phenyl ether derivatives J. Suzuki, S. Onoue, D. Okamura, M. Onoue Central Research Laboratories/Hokko Chemical Industry Co., Japan
- P3.25 Iminodipyridinopyrimidines, a novel scaffold of potent chitinase inhibitors as promising leads in plant disease control P. Yuan<sup>1</sup>, X. Jiang<sup>2</sup>, Q. Yang<sup>2</sup>, X. Qian<sup>1</sup> <sup>1</sup>East China University of Science and Technology; <sup>2</sup>Dalian University of Technology, China
- P3.26 Picarbutrazox: A novel fungicide for the control of oomycete diseases S. Watanabe, I. Urihara, T. Fujii, H. Yamanaka, H. Sano Nippon Soda Co., Ltd., Japan



# SUMITOMO CHEMICAL GROUP



Friday

Posters Thursday

T. Aoki, K. Fukatsu, N. Yasokawa, K. Sakata, E. Satoh, R. Kasahara, H. Harayama, T. Murata, A. Suwa, S. Fujioka

O. F. Hueter<sup>1</sup>, J. Schaetzer<sup>1</sup>, T. Pitterna<sup>1</sup>, A. Buchholz<sup>1</sup>, C.R. Godfrey<sup>1</sup>, M. Goeghova<sup>2</sup>, E. Godineau<sup>1</sup>, P. Maienfisch<sup>1</sup>,



Delivering bespoke regulatory solutions in support of EU and international registrations since 2001 WHAT YOU NEED - WHERE YOU NEED IT

# **COME AND MEET OUR EXPERTS ON STAND 41**





Manda Vince

Johnathan Clark and Residue Chemistry Expert

**44** (0)1937 587 962



# **Part of Staphyt Group**

✓ enquiries@apc.eu.com

Global reach

Visit CSI at

www.apc.eu.com

Rosie Wilson



**COMPLIANCE SERVICES INTERNATIONAL** 

Global Regulatory and Environmental Strategies since 1988

**Matthieu Becle** 

Regulatory Manager

Offices in Europe and the USA

# REGULATORY **CONSULTING SERVICES**

Crop Protection, Biocides, Chemicals, Cosmetics

# EU, US and Global **Regulatory Affairs** >Conventional Agrochemicals

> Biopesticides / Microbials

Biostimulants / Fertilisers

Biocides / Antimicrobials

>REACH / Industrial Chemicals

> Endangered Species Assessment

and Management

**Risk Assessment and** 

> Ecological / Human Health

> Environmental Fate / Exposure

>Regulatory Study Placement

**Study Management** 

**Risk Assessment** 

Modelling

info@complianceservices.com www.complianceservices.com **Registration Support** and Dossier Preparation

- >General Consultancy and **Project Management**
- >Development of Regulatory Strategies
- >Data Gap Analysis
- >Dossier Preparation, Submission and Defence
- >Litigation Support



	Monday	Tuesday	Wednesday								
	Posters to Discovery and optimization of										
P3.2	8 An acetam	ide containing an	isothiazole moiety and its								
	L. Chen, Z.	S. Hao, G. Wang, G	a. Sun, J.F. Wang, H.B. Yang emicals R&D Co. Ltd., China								
P3.2	Y. Zhou, M	r <b>imidine hydrozor</b> <u>. Cai, H.W. He</u> ina Normal Univers	nes as PDHc-E1 inhibitors								

- P3.30 Revysol<sup>®</sup>: The highly active fungicide in row and specialty crops M. Semar<sup>1</sup>, D. Strobel<sup>1</sup>, M. Coquiller<sup>1</sup>, G. Stammler<sup>1</sup>, J. Barnes<sup>2</sup>, L. de Paula Collette<sup>3</sup>, J. Lee<sup>4</sup>, <sup>1</sup>BASF SE, Germany; <sup>2</sup>BASF Corporation, USA; <sup>3</sup>BASF S.A., Brazil; <sup>4</sup>BASF Company Ltd., South Korea
- P3.31 PAVECTO<sup>®</sup> A new Qol-fungicide: Hypotheses for the activity of tetrazolinone inhibitors against Qol-Resistant fungal strains from crystallography and molecular modelling I. Craiq<sup>2</sup>, G. Stammler<sup>1</sup>, R. Bryson<sup>1</sup>, J. Rheinheimer<sup>3</sup>, C. Hunte<sup>2</sup>, V. Pandey<sup>2</sup>, W.-C. Kao<sup>2</sup>, K. Klappach<sup>1</sup> <sup>1</sup>BASF SE; <sup>2</sup>University of Freiburg, Germany
- P3.32 Synthesis of Schiff base derivatives as potential antiviral agents for plants Y. Wang, F. Xu, D. Luo, S. Chen, G. Yu, F. He, J. Wu Guizhou University, China
- P3.33 Discovery of a new class of highly active fungicides to control rust diseases C. Winter, C. Wiebe, M. Fehr BASF SE, Germany
- P3.34 Design, synthesis and structure–activity relationship of novel isoxazolo[5,4-d]pyrimidinethylamine derivatives M. Li, J.C. Yang, J.Q. Sun, Z.N. Li, C.L. Liu Shenyang Sinochem Agrochemicals R&D Co. Ltd., China
- P3.35 Discovery and structure activity relationship of metyltetraprole S. Arimori, Y. Yoshimoto, Y. Matsuzaki, F. Iwahashi Sumitomo Chemical Co., Japan
- P3.36 Synthetic approaches towards Isoflucypram, a novel broad spectrum fungicide <sup>1</sup>Bayer SA, France; <sup>2</sup>Bayer AG, Germany; <sup>3</sup>Bayer SA, France; <sup>4</sup>Bayer KK, Japan; <sup>5</sup>Bayer U.S., USA
- P3.37 Novel N-cyclopropyl-N-[2-(1-R cyclopropyl)benzyl]pyrazole carboxamides for soybean Asian rust control Neuman<sup>2</sup> <sup>1</sup>Bayer SA, France; <sup>2</sup>Bayer AG, Germany
- P3.38 Diaminopyrimidines New agents to control leaf spot and grey mold G.C. Rudolf, V. Terteryan-Seiser, H. Schiffer, C. Winter, T. Grote BASF SE, Germany
- P3.39 Aminopyrifen: Synthesis and structure activity relationships R. Aizawa<sup>1</sup>, M. Hatamoto<sup>1</sup>, I. Okada<sup>2</sup>, A. Honma<sup>1</sup>, K. Araki<sup>1</sup>, T. Fukuchi<sup>1</sup> <sup>1</sup>Agro-Kanesho Co., Ltd.; <sup>2</sup>Tokyo University of Agriculture, Japan
- P3.40 ADEPIDYN<sup>™</sup>, the discovery story of a novel SDH inhibitor D. Stierli<sup>1</sup>, H.U. Haas<sup>1</sup>, R. Rajan<sup>2</sup>, H. Walter<sup>1</sup>, M. Weiss<sup>1</sup> <sup>1</sup>Syngenta Crop Protection AG, Switzerland; <sup>2</sup>Syngenta Biosciences Pvt. Ltd., India







# ic 3 crop protection products

# s fungicidal activity against cucumber downy mildew g, <u>H.B. Yu</u>, B. Li а

# against fungal phytopathogens

A. Becker<sup>1</sup>, J. Benting<sup>2</sup>, C.-A. Braun<sup>2</sup>, P. Dahmen<sup>2</sup>, <u>P. Desbordes<sup>3</sup></u>, C. Dubost<sup>3</sup>, S. Gary<sup>3</sup>, U. Goergen<sup>2</sup>, H. Hadano<sup>4</sup>, B. Hartmann<sup>5</sup>, T. Knobloch<sup>3</sup>, N. Lui<sup>2</sup>, R. Meissner<sup>2</sup>, S. Pazenok<sup>2</sup>, R. Rama<sup>3</sup>, A. Voerste<sup>2</sup>, U. Wachendorff-Neumann<sup>2</sup>

P. Cristau<sup>1</sup>, P. Desbordes<sup>1</sup>, J. Geist<sup>1</sup>, L. Nicolas<sup>2</sup>, P. Rinolfi<sup>1</sup>, J.P. Schmidt<sup>2</sup>, T. Tsuchiya<sup>1</sup>, J.P. Vors<sup>1</sup>, U. Wachendorff-

		Monday	Tuesday	Wednesday
			Discover	Posters to y and optimization of
	P3.41	<u>K. Kai</u> ¹, A. `	Yoshihara <sup>1</sup> , M. Sakat	<b>attenuates the virulend</b> a <sup>1</sup> , Y. Hikichi <sup>2</sup> <sup>2</sup> Kochi University, Japan
	P3.42	C. Lamber <u>T. Hoffmar</u>	th, S. Jeanmart, J. G <u>1</u>	<b>vity of novel imidazole-</b> l agnepain, F. Cederbaun Switzerland; <sup>2</sup> Syngenta
	P3.43	<b>carboxam</b> J. Liu², <u>Y. L</u>	<b>ide derivatives</b> <u>i</u> 1, Z. Li1	<b>ure activity relationship</b> ricultural University, Chin
	P3.44	<u>D. Yang</u> , Z	-	<b>vity of novel succinate c</b> N. Zhang, Q. Wu, S. Zho
	P3.45	<u>Y.Q. Li</u> ¹, B.	Zhang <sup>1</sup> , <u>Q.M. Wang<sup>1</sup></u>	ism study of gossypol a <sup>2</sup> ive Innovation Center of
	P3.46	Y. Zheng,	<u>G. Song</u> , J. Wang	<b>ly of ascaroside compo</b> ce and Technology, Chir
	P3.47	Y. Nakaga	wa <sup>1</sup> , S. Takimoto <sup>1</sup> , M.	I brassinolide-active co Matsuo¹, S. Hinata¹, A. S re/Kyoto University; ²RIKI
	P3.48	<b>type-ii ph</b> <u>Q. Xu</u> , Y. F	otosensitizer eng, X. Shao	rivatives and analogues
	P3.49	H.S. Yeom	, S.B. Kim, H.N. Lim,	cal nematocides: Findir Y.H. Choi, G.J. Choi nemical Technology, Sou
	P3.50	C.K. Borro		<b>biodegradable polymeri</b> Adhikari², P. Johnston², <u>/</u> ustralia
	- P3.51	Orobanch A. Lumbro	e cumana Wallr	otent analogues of strig Lachia, V. Paul, S. Rendii . Switzerland
	P3.52	J.S. Song <sup>1,</sup> <sup>1</sup> Seoul Nat	<sup>2</sup> , S.K. Yoo <sup>3</sup> , <u>D.S. Kim</u>	<b>byl)cyclopropene on the</b> 1 <sup>1</sup> asma Technology Resea
A C 2 O 1 9 G H E N T	-			



Friday

# topic 3 of crop protection products

# lence of the plant pathogen ralstonia solanaceaeum

# le-based ketene dithioacetals

aum, D. Bonvalot, R. Rajan, O. Jacob, M. Blum, S. Bieri,

nta Biosciences Pvt. Ltd., India

# hip studies of (R)-2-Phenyl-4,5-dihydrothiazole-4-

China

# te dehydrogenase based derivatives

Zhou, Z. Hao, Y. Lv

# ol and its Schiff base derivatives

of Chemical Science and Engineering, China

# pound C6 and its analogues

China

# compound by pharmacophore-based virtual screening

A. Sugiura<sup>1</sup>, A. Yamagami<sup>2</sup>, T. Nakano<sup>2</sup>, H. Miyagawa<sup>1</sup> RIKEN Center for Sustainable Resource Science, Japan

# ues inactivate mosquito larvae and root-knot nematode as

China

# nding hits and its optimization

South Korea

# neric mulch in different soil types

n², <u>A.F. Patti</u>1

# strigolactones for the seed germination induction of

ndine, R. Fonné-Pfister, <u>A. De Mesmaeker</u>

# the quality and storage life of tomato fruit

search Center, National Fusion Research Institute; <sup>3</sup>Erum

М	londay	Tuesday	Wednesday	Thursday	Friday	Posters Thursday		Monday	Tuesday	Wednesday	Thursday	Friday	Posters Thursday		
		Discovery		rs topic 3 n of crop protectic	on products				Discovery	Posters y and optimization		n products			
	<b>Malaria erad</b> <u>N. Hamon</u> IVCC, UK	ication, agricultura	al innovation and t	the ZERO by 40 initia	ative		P3.66		. v. Almsick, D. Barb	<b>d on a substituted py</b> ber, C. Gardner, E. Gatz			of action		
	<ul> <li>A novel pyrazolo[3,4-d]pyrimidine derivative induces disease resistance against Pst DC3000 in Arbidopsis thaliana through SA and JA defense signaling pathways</li> <li><u>Q. Shi</u><sup>1</sup>, Y. Xu<sup>1,2</sup>, X. Qian<sup>1,3</sup></li> <li><sup>1</sup>East China University of Science and Technology; <sup>2</sup>Shanghai Polytechnic University; <sup>3</sup>East China Normal</li> </ul>							P3.67 The PROVISIA® rice system: A new rice production system for grass weed control in rice <u>B.A.B. Martins</u> <sup>1</sup> , L. Mankin <sup>2</sup> , A. Landes <sup>1</sup> <sup>1</sup> BASF, SE, APR/HA, Germany; <sup>2</sup> BASF, USA							
P3.55	University, Ch Fumigation a	nina activity of AITC ap		mechanization again			P3.68	P3.68 TIREXOR <sup>™</sup> herbicide, a novel PPO inhibitor for managing herbicide-resistant weeds <u>T. Seitz</u> <sup>1</sup> , R. Nielson <sup>1</sup> , A. Porri <sup>1</sup> , J. Lerchl <sup>1</sup> , M. Witschel <sup>1</sup> , G. Armel <sup>2</sup> , S. Bowe <sup>2</sup> , D. Findley <sup>2</sup> <sup>1</sup> BASF SE, Germany; <sup>2</sup> BASF, USA							
				uipment for Agricultu	re; <sup>2</sup> Beijing Key La	aboratory of Intelligent	P3.69	in barley, s	pring- and winter-w		-	-	-		
	<u>Y.H. Chan</u> <sup>1</sup> , J.			or paclobutrazol on A	rabidopsis thalia	na	J. Hutzler <sup>1</sup> , G. Kraemer <sup>1</sup> , H. Kraus <sup>2</sup> , N. Kreling <sup>1</sup> , K. Kreuz <sup>1</sup> , K. Reinhard <sup>1</sup> , J. Major <sup>2</sup> T. Mietzner <sup>1</sup> , T. Newton <sup>1</sup> , L. Parra Rapado <sup>1</sup> , D. Schachtschabel <sup>1</sup> , <u>T. Seiser<sup>1</sup></u> , M. Si S. Tresch <sup>1</sup> , V. Vogt <sup>1</sup> , M. Witschel <sup>1</sup> <sup>1</sup> BASF SE, Germany; <sup>2</sup> BASF, USA; <sup>3</sup> BASF, Singapore								
	X.L. Deng <sup>1</sup> , W	.N. Zheng <sup>1,2</sup> , L.Y. Ba		<b>lucts</b> ate School of Hunan l	Jniversity, China		P3.70 Biology of LUXIMO <sup>™</sup> H. Kraus <sup>1</sup> , <u>M. Witschel<sup>2</sup></u> <sup>1</sup> BASF, USA; <sup>2</sup> BASF SE, Germany								
	S.Q. Zhang, J	<b>hesis and herbicid</b> .Y. Wang, F. Ye, <u>Y. F</u> ricultural Universit	Fu	l niacin-triketone der	ivatives as HPP[	) inhibitor	P3.71	P3.71 Utility of Effeeda for broadleaf weed control in wheat and barley Y. Amano, M. Kobayashi, R. Tamai, D. Yamawaki, Y. Nakano Kumiai Chemical Industry Co., Japan							
	Y.X. Liu, Y.N.	<b>novel p-hydroxyp</b> Sun, F. Ye, <u>Y. Fu</u> ricultural Universit		xygenase inhibitors I	by virtual screen	ng	P3.72	P3.72 Imine-amide bioisosterism applied to pyrimidines: Discovery of a new class of pyridazinone herbicides acting at phytoene desaturase <u>T.M. Stevenson</u> , M.J. Campbell, E.W. Reed							
P3.60	Synthesis an	d safener activity	of substituted diaz	zabicyclo herbicide s	afeners		FMC Agricultural Products, USA								
		. Wang, S. Gao, Y. I ricultural Universit					P3.73 Revival of forgotten herbicide areas enabled by modern cross-coupling techniques J.R. DeBergh, T.M. Stevenson FMC Agricultural Solutions, USA								
	benzoxazole K.L. Guo, J.J.	owave-assistant s s as herbicide safe Li, Y. Fu, <u>F. Ye</u> ricultural Universit	ener	substituted phenyliso	oxazole formyl be	enzoxazines/	P3.74	biosynthes	sis	<b>a new mode-of-actio</b> atterfield, A. Puri, A.D.			h pyrimidine		
	-		-						ultural Solutions, US			eli, A.L. Tayyi			
	broadleaf we <u>H.W. He</u> , H. P	• • • •	Yuan	yl) methylphosphona	ites as PDHc inni	bitor against	P3.75	A. Okazawa	<u>a</u> <sup>1,2</sup> , A. Baba <sup>1</sup> , T. Wak	r <b>s of root parasitic we</b> kabayashi <sup>2,3</sup> , Y. Sugimo JST; <sup>3</sup> Kobe University,	oto <sup>2,3</sup> , D. Ohta <sup>1</sup>	eose metabolisr	n		
	D. Geerdink, BASF SE, Ger	S. Tresch, R. Camp rmany	oe, K. Kreuz, T.H. Se			bitors	P3.76	<u>S. Backx</u> <sup>1</sup> , F N. De Kimp	<sup>=</sup> . Stock <sup>1</sup> , S. Graff va be <sup>1</sup> , A. Willems <sup>1</sup> , A. V	ne-derived tetramic a n Creveld <sup>2</sup> , M. Syrpas <sup>1</sup> , ′ardi <sup>2</sup> , W. Vyverman <sup>1</sup> , S eizmann Institute of Sci	, L. Blommaert <sup>1,3</sup> , W. . Mangelinckx <sup>1</sup>	Stock <sup>1</sup> , E. Ruysbe	-		
	phosphoribo T.W. Newton <sup>1</sup> ,	<b>sylpyrophosphate</b> T. Ehrhardt <sup>2</sup> , J. Hu	amidotransferase utzler <sup>1</sup> , R. Niggeweg	el herbicides, based (PRAT) 1 <sup>1</sup> , E. Hollenbach <sup>1</sup> , S. T y; <sup>4</sup> Digital Science, U	resch³, J. Wastl⁴,	M. C. Witschel <sup>3</sup>	P3.77	<u>S. De</u> , T.P. S		<b>oxazolidione herbicid</b> .A. Travis, M. Ruggiero SA		beans			
	T. Okita, M. T		ga <mark>wa, S</mark> . Nagayama	el herbicide for weec a, T. Suganuma	l control in corn										



# **PRODUCT SERVICES AND REGULATORY AFFAIRS**

**Regulatory strategies** for the plant protection, biocide and chemical industries

ERM is a leading global provider of environmental, health, safety, risk, regulatory and sustainability related services

**REGULATORY CAPABILITY** 

PROJECT MANAGEMENT

**GLOBAL SERVICES** 

**TECHNICAL TEAM** 

# Monday Tuesday Wednesday Thursday Posters topic 3 **Discovery and optimization of crop protection products** P3.78 Application of chemoinformatics in discovery of biopesticides based on agricultural waste plants J. Yao<sup>1</sup>, Y. Huang<sup>1</sup>, W. Xu<sup>1</sup>, J. Hu<sup>1</sup>, S. Jiang<sup>1</sup>, J. Li<sup>1</sup>, G. Dai<sup>2</sup> <sup>1</sup>Chinese Academy of Sciences; <sup>2</sup>Shanghai Jiaotong University, China P3.79 Advancements in pesticide safety assessment-generating data with fewer animals and with more relevance to humans S. Gehen, M. Corvaro, C. Terry Corteva Agriscience, USA P3.80 Towards smarter IPM with semiochemicals - How dispenser technology developed within the last five decades H.E. Hummel<sup>1,2</sup>, B. Czarnobai de Jorge<sup>3,4</sup>, J. Gross<sup>3,4</sup>, M. Breuer<sup>5</sup> <sup>1</sup>Justus-Liebig University Giessen, Germany; <sup>2</sup>University of Illinois Urbana-Champaign, USA; <sup>3</sup>Julius Kühn-Institut; <sup>4</sup>Technical University Darmstadt; <sup>5</sup>Weinbauinstitute Baden-Württemberg, Germany P3.81 Comparing an integrated pest management with a chemical control strategy in multiple strawberry cultivations K. Stoffels, M. Vervoort, D. Baets, P. Melis, T. Van Delm Proefcentrum Hoogstraten, Belgium P3.82 Binding interactions of diuron and irgarol with PSII system reaction core of wild and diuron-resistant strains of a marine microalgae: Insights from molecular modelling J.-Y. Le Questel<sup>1</sup>, S. Stachowski-Haberkon<sup>2</sup>, R. Sussarellu<sup>2</sup>, Z. Bouchouireb<sup>1,2</sup>, J. Graton<sup>1</sup> <sup>1</sup>Université de Nantes; <sup>2</sup>Ifremer, France P3.83 Rational design of a parallel synthesis program for the optimization of antifungal HDAC inhibitors B. Merget, C. Wiebe, A. Koch BASF SE, Germany P3.84 The LOGAN project - Local crops as a natural resource for pesticides J. Geuens, M. Bosman Karel de Grote University College, Belgium

- **P3.85** Predictive modeling approach for performance of co-formulants in agrochemical formulations C. Woelfle-Gupta<sup>1</sup>, Y. Alencar Marques<sup>1</sup>, S. Bhide<sup>2</sup> <sup>1</sup>The Dow Chemical Company, USA; <sup>2</sup>Dow Chemical Int. Pvt. Ltd., India
- P3.86 Elicitation with biomolecules induces differential defense responses in Arabidopsis cell suspensions E. Claverie, J.C. Cabrera Materia Nova, Belgium
- P3.87 Research and development of green pesticides in China X. Qian<sup>1,2</sup> <sup>1</sup>East China Normal University; <sup>2</sup>East China University of Science and Technology, China
- P3.88 Pre-screening strategies for early hazard identification A.P. Martins, G. Dean, D. Shaw, K. Barrett Envigo, UK
- P3.89 Measuring the interplay between uptake and loss processes of xenobiotics D. Sayer, M. Bronzato Syngenta, UK
- P3.90 New compounds with fungicide, nematocide and insecticide activity designed by molecular topology M. Galvez-Llompart<sup>1,2</sup>, R. Zanni<sup>1</sup>, R. Garcia-Domenech<sup>1</sup>, J. Galvez<sup>1</sup> <sup>1</sup>University of Valencia; <sup>2</sup>University of Malaga, Spain

The business of sustainability

www.erm.com



Friday

C C S		111
	who plants challenges to harvest solutions?	
	we do.	

Whether you're looking for ingredients for seed coatings or ways to make crop protection products more efficacious, we want to find an answer to your question and a solution to your challenge. Visit our solvers at booth 65 to discover our Agrimer<sup>™</sup> family of polymers based on pyrrolidone technology, Agrimax<sup>™</sup> cellulose ether polymers, Agrimer fully formulated products and AgsolEx™ water-soluble solvents. From the seed of an idea comes a bountiful harvest of solutions when you work with this passionate team of solvers.

ashland.com/agriculture







Monday	Tuesday	Wednesday	
	· · · · ·		

**Posters Topic 4** 

- Best practice for formulating products with multiple agrochemical actives P4.1 W. Xu, C. Finch **BASF** Corporation, USA
- P4.2 Solving the chemical stability in agricultural formulations V. Dumontet<sup>1</sup>, R. Acosta Amado<sup>2</sup>, M. Li<sup>2</sup>, J. Atkinson<sup>3</sup>, B. Perez<sup>4</sup> <sup>1</sup>Corteva Agriscience, France; <sup>2</sup>Corteva Agriscience, USA; <sup>3</sup>Corteva Agriscience, UK; <sup>4</sup>Corteva Agriscience, Brazil
- P4.3 Surfactant self-assembly for complex agricultural formulations E. Shaw<sup>1</sup>, K. Buchek<sup>2</sup>, E. Weber<sup>2</sup>, A. Brayton<sup>2</sup> <sup>1</sup>Stepan Europe, France; <sup>2</sup>Stepan Company, USA
- P4.4 Spatiotemporal dynamics of trunk injected imidacloprid, pyrimethanil and difenoconazole in apple trees C. Berger<sup>1</sup>, A. Renier<sup>2</sup>, L. Mediouni<sup>1</sup>, F. Laurent<sup>1</sup> <sup>1</sup>Université de Toulouse; <sup>2</sup>Cetev, France
- P4.5 Effect of adjuvant selection on spray retention K. Min, C. Geng, S. Wilson, F. Admana, M. Francis, C. Young, J. McFadden Corteva<sup>™</sup> Agriscience, USA
- Mannosyl erythritol lipids Biosurfactants for conventional pesticides P4.6 P. Ravier<sup>1</sup>, S. Deprey<sup>1</sup>, W. van de Velde<sup>2</sup> <sup>1</sup>Oleon SAS, France; <sup>2</sup>Oleon NV, Belgium
- P4.7 A versatile surfactant for use in high electrolyte systems R. Franklin<sup>1</sup>, A.R. Boracci<sup>1</sup>, S. Zhu<sup>1</sup> F. Hermawanto<sup>2</sup> <sup>1</sup>Nouryon, USA; <sup>2</sup>Nouryon, Singapore
- P4.8 Impact of tank-mix adjuvants for the control of Asian soybean rust with a leading azol fungicide I.S.N. Dario<sup>1</sup>, L. Bodelon<sup>2</sup>, P. Baur<sup>2</sup>, G.J.A. Dario<sup>1</sup> <sup>1</sup>São Paulo State University, Brazil; <sup>2</sup>Clariant, Germany
- P4.9 Mesoscale models to optimize formulation additives S. Köhler, S. Steiger, E. Schreiner, N. Shabelina, M. Bratz BASF SE, Germany
- P4.10 Searching for evidence: Development of a method to observe plant cuticular barrier properties P. Seufert<sup>1</sup>, S. Staiger<sup>1</sup>, K. Arand<sup>1</sup>, A. Friedmann<sup>2</sup>, C. Popp<sup>3</sup>, M. Riederer<sup>1</sup> <sup>1</sup>Julius Maximilian University Würzburg, Germany; <sup>2</sup>Syngenta Crop Protection Ag, Switzerland; <sup>3</sup>Syngenta Crop Protection Münchwilen AG, Switzerland
- P4.11 Aliphatics or alicyclics: What is the permeation barrier of the plant cuticle to active ingredients? S. Staiger<sup>1</sup>, P. Seufert<sup>1</sup>, K. Arand<sup>1</sup>, A. Friedmann<sup>2</sup>, C. Popp<sup>3</sup>, M. Riederer<sup>1</sup> Protection Münchwilen AG, Switzerland
- P4.12 UV stabilization of actives after application S. Nord, A. Simon, T. Schwaben, W. Mayer, N. Shabelina BASF SE, Germany
- P4.13 Novel multifunctional drift control agent S. Kamin, S. Sarkar, K. Visscher Ashland Inc., USA



<sup>1</sup>Julius Maximilian University Würzburg, Germany; <sup>2</sup>Syngenta Crop Protection AG, Switzerland; <sup>3</sup>Syngenta Crop



# **PRODUCTS FOR AGRO-**CHEMICAL APPLICATIONS

Sasol Performance Chemicals

Sasol offers high quality products for Agrochemical Formulation

- Emulsifiers
- Wetting agents
- Adjuvants
- Solvents

# Our product portfolio includes

- Broad portfolio of linear and branched alcohols from C6-C24+
- Alcohol alkoxylates
- Ether sulfates
- Paraffinic oils
- Castor oil ethoxylates

## **CONTACT INFORMATION**

Sasol Performance Chemicals **Organics Division** Anckelmannsplatz 1 20537 Hamburg, Germany

For technical requests and samples, please contact: agrotech@eu.sasol.com For sales and pricing information,

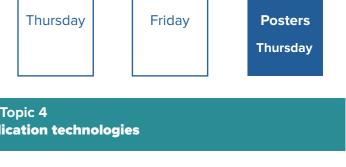
please contact: agrosales@eu.sasol.com

**VISIT US AT BOOTH NO. 68** 

Sasol

Monday	Tuesday		Wednesday	
	F	ormul	Poste ation and a	

- Compatibility agents for complex tank mix systems P4.14 L. Le Bert, J. Sheehan, R. Totten Stepan Europe, USA
- P4.15 BIOPROD: Developing tailor-made formulation for a new generation of biopesticides J.C. Cabrera<sup>1</sup>, S. Roosa<sup>1</sup>, R. Wattiez<sup>2</sup>, M. Houbraken<sup>3</sup>, P. Spanoghe<sup>3</sup> <sup>1</sup>Unité de biotechnologie-Materia Nova; <sup>2</sup>University of Mons; <sup>3</sup>Ghent University, Belgium
- P4.16 Innovative silicone co-formulants: How to enhance foam control performances in agro formulations? E. Emond, F. Pochon, C. Leuci Elkem Silicones France, France
- P4.17 Enhancing soil mobility of fipronil by encapsulation B. Oschmann, M.R. Jung, K. Reinhard, C. Taranta BASF SE, Germany
- P4.18 Sustainable approaches to formulation development at Corteva<sup>™</sup> agriscience J. Atkinson, M. Li, D. Wujek, R. Acosta Amado, K. Min, M. Somasi, M.M. Johnson Corteva<sup>™</sup> Agriscience, USA
- P4.19 Biosurfactants as green adjuvants for agrochemicals T. Koshiyama<sup>1</sup>, H. Tateishi<sup>1</sup>, T. Eizuka<sup>1</sup>, A. Saika<sup>2</sup>, T. Fukuoka<sup>2</sup>, T. Morita<sup>2</sup> <sup>1</sup>kureha Corporation; <sup>2</sup>AIST, Japan
- P4.20 Chemically stable & efficacious liquid formulations of sulfonylurea herbicides J.M. Groome<sup>1</sup>, A.E. Goldsmith<sup>1</sup>, M.S. Benhamouda<sup>2</sup> <sup>1</sup>Battelle UK Ltd, UK; <sup>2</sup>Mitsui AgriScience International, Belgium
- P4.21 High performance oil dispersion adjuvant exploration W. Lu. E. Ren The Dow Chemical Company, China
- P4.22 Genagen NBP: A distinguished water miscible solvent beyond being a replacement of NMP J. Aponte<sup>1</sup>, R. Arnold<sup>1</sup>, I.S.N. Dario<sup>2</sup>, <u>S. Giessler<sup>1</sup></u>, T. Weick<sup>1</sup>, P. Baur<sup>1</sup> <sup>1</sup>Clariant, Germany; <sup>2</sup>São Paulo State University, Brazil
- P4.23 The role of formulation inerts in the formation of fine droplets M. Nolte<sup>1</sup>, T. Winger<sup>2</sup>, M. Schwaben<sup>1</sup>, T. Schwaben<sup>1</sup>, A. Simon<sup>1</sup> <sup>1</sup>BASF SE, Germany; <sup>2</sup>BASF Corporation, USA
- P4.24 Challenges in formulation analytics I. Thamm, R. Förster BASF SE, Germany
- P4.25 Control of Dalbulus maidis in maize crop with electrostatic spraying J.P.A.R. Cunha, R.S. Marques, G.S. Alves Federal University of Uberlândia, Brazil
- P4.26 Tessior®system A new SD formulation and special application device against esca disease of grapevine K.-H. Schneider<sup>1</sup>, M. Nolte<sup>1</sup>, A. Kühn<sup>1</sup>, R. Zito<sup>1</sup>, B. Blanz<sup>1</sup>, S. Henkes<sup>1</sup>, R. Rehkugler<sup>2</sup>, J. Mogilewski<sup>2</sup>, B. Stockburger<sup>2</sup>, C. Winter<sup>3</sup> <sup>1</sup>BASF SE; <sup>2</sup>MESTO Spritzenfabrik Ernst Stockburger GmbH, Germany; <sup>3</sup>FELCO SA, Switzerland



Ste	pan	5.
Aaricult	- ural Solut	tions



**Posters Topic 4** Formulation and application technologies

- P4.27 Mesoporous silica nanoparticles as nanocarriers for controlled pesticide release L. Cao, Q. Huang Chinese Academy of Agricultural Sciences, China
- P4.28 Drone application technology: Challenges and opportunities for formulation design Y. Sato<sup>1</sup>, M. Faers<sup>2</sup> <sup>1</sup>Bayer CropScience K.K., Japan; <sup>2</sup>Bayer AG, Germany
- P4.29 Informing precision agriculture: Small-scale spatial variability in herbicide, weed, and crop dynamics S.K. Papiernik USDA-ARS, USA
- P4.30 Optimisation of a hyperspectral pushbroom camera setup for scanning leek plants in field conditions S. Appeltans, A. Guerrero, S. Nawar, J. Pieters, A.M. Mouazen Ghent University, Belgium
- P4.31 Relationship pressure-granulometry of agricultural sprays H.H. Boukhalfa, M. Belhamra University Mohamed Khider-Biskra, Algeria
- P4.32 INNOSETA An H2020 European project to fill the gap between research and professional users in crop protection

E. Gil<sup>1</sup>, M. Gallart<sup>1</sup>, P. Balsari<sup>2</sup>, A. Koutsouris<sup>3</sup>, S. Codis<sup>4</sup>, <u>D. Nuyttens<sup>5</sup></u>, S. Fountas<sup>3</sup> <sup>1</sup>Universitat Politècnica de Catalunya, Spain; <sup>2</sup>Universita degli Studi di Torino, Italy; <sup>3</sup>Agricultural University of Athens, Greece; <sup>4</sup>Institut Francais de la Vigne et du Vin, France; <sup>5</sup>Instituut voor Landbouw en Visserijonderzoek, Belgium



GROWING THROUG











# **About Stepan Agricultural Solutions**

To help meet ever-changing market dynamics, Stepan Agricultural Solutions offers a robust pipeline of innovative products and actively seeks to be the strategic supplier of choice for your agricultural chemical needs. Our global research network and geographic footprint is such that we can effectively meet the needs of our customers around the globe. In addition, our industry-leading, in-house formulation expertise in emulsifiable concentrates, microemulsions, suspension concentrates and dry products provides a value-added service to help solve customers' most difficult challenges.

email: tech.service@stepaneurope.com web: go.stepan.com/agriculture



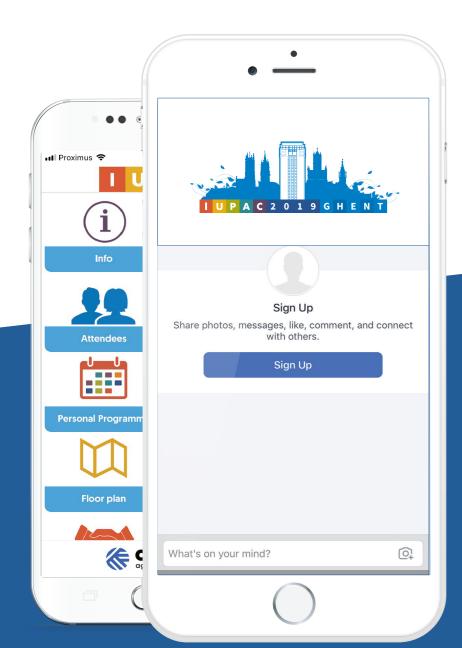


Thursday	

Friday

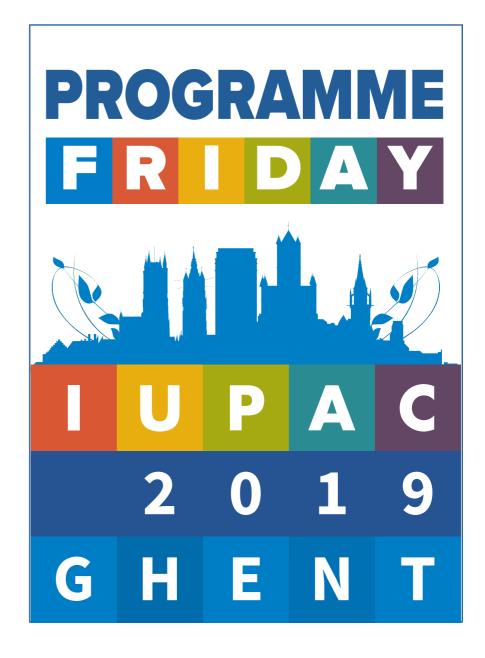
**Posters** Thursday







**IUPAC 2019** 



# Programme at a Glance - Friday, May 24

		Auditorium	Van Rysselberghe Room	Jan Van Eyck Room
08.00	Presentations Upload			
08.30		Plenary Talks X. Qian D. Zaruk		
09.40		Cot	ffee	
10.20	Parallel Sessions	Education of the next generation & Debate: Engaging the next generation for agriculture		3.5 New approaches to crop protection products: discovery tools, green chemistry (2/2)
12.20		Poster Award Ceremony (Topics 3 & 4)		
12.30		Farewell: The Movie		
13.00		Lunch & I	Departure	

Hubert Van Eyck Room	Van der Goes Room
	Cof
7.4 Advances in sampling methods and analysis and monitoring of agricultural chemicals	3.6 Highlights from Poster Sessions - Short Presentations

# Bauwens Room II

# offee

6.2 New approaches to sampling and monitoring

Short oral poster presentations

Mono	day	Tuesday		Wednesday		Thursday		Friday		Posters			Monday		Tuesday		Wednesday	
								Auditorium										
	Plena	ry Talks	1				I		L		I	L		8.5 Ne	w approach	es to	crop protect	ion p
08.30	Resea	rch and devel	opmen	nt of green pe	sticide	s in China								Chairs:	Xuhong Qiar	n, East	China Normal	Unive
00.00		g Qian, East C	-									10.20					<b>ective tool fo</b> r na Co., Japan	
09.05		chain trust																
	David	Zaruk, Odisee	Univer	rsity College,	Belgiu	n						10.40			rizi, Corteva A		<b>and inspirati</b> ence, USA	on fo

0	Xuhong Qian, East China Normal University, China	10.20	3.5.7	Natural products: Most effective tool for creati
5	Block chain trust			K. Oyama, Meiji Seika Pharma Co., Japan
	David Zaruk, Odisee University College, Belgium	10.40	3.5.8	Natural products: A source and inspiration for N.V. Garizi, Corteva Agriscience, USA
0-10.20	Coffee Break			
		11.00	3.5.9	<b>Photochromic insecticides for insect behavior</b> X. Shao, East China University of Science and Te
	Education of the next generation Chair: Femi Oke, Moderate the Panel, USA		0 5 40	
		11.20	3.5.10	Exploring the molecular recognition properties competitive modulators through multiscale mo
0	How our Next-Gen Agri-summit winners see the future of Crop Protection $CropLife \Upsilon$			JY. Le Questel, Université de Nantes, France
)	Reflections on agrochemistry, society and economy			
	Marc Van Montagu, Ghent University, Belgium	11.40	3.5.11	A computational predictive approach for the di compounds
				B. Inbal, agPlenus Ltd., Israel
)	Debate	12.00	3.5.12	The agrochemical discovery portal: New comp
	Engaging the next generation for agriculture			target interaction
	Yemi Adeyeye, YPARD, Italy			G.F. Hao, Guizhou University, China
	Marc Van Montagu, Ghent University, Belgium			

- Ten little stories in Crop Protection Research to be written before our next IUPAC 11.40 Pieter Spanoghe, Ghent University, Belgium
- 12.20 **Poster Award Ceremony** Announcement of the poster award winners in topics 3 & 4. FMC syngenta.
- **IUPAC Farewell: The movie** 12.30
- Lunch and Departures 13.00

09.40-

10.20

10.40

11.00







products: discovery tools, green chemistry (II) niversity, China & Beth Lorsbach, Corteva Agriscience, USA

reating green crop protection products

for crop protection lead generation

ides for insect behavior modulation versity of Science and Technology, China

r recognition properties of insect nicotinic acetylcholine receptors s through multiscale molecular modeling

ctive approach for the discovery and optimization of new crop protection

overy portal: New computational platform for efficiently study pesticide and

	Monday		Tuesday	Wednesday	Thursday	Friday Hubert Van Eyck	Posters	Monday		Tuesday	Wednesday	
	++++ ENVIGO	Chairs:	Michele Hlad	mpling methods and ik, United States Geol	ogical Survey, USA	& Elizabeth Carazo	, Costa Rica	L • BASE Ver under Anderen		Peter Maienfi	<b>1 Poster Sessions - Sh</b> isch, Syngenta Crop Prot linckx, Ghent University, E	
10.20	<ul> <li>7.4.1 Pesticide monitoring studies in environmental samples: The most reliable sampling, extraction and analytical techniques over the last two decades</li> <li>Z. Vryzas, Democritus University of Thrace, Greece</li> </ul>							Highlights from the Topic 3 Poster Sessions wi (5 minutes). Invitation will be made by members				
10.40	7.4.2	monito	ring of pestic	<ul> <li>A new time-integratides in whole water</li> <li>University of Agricultu</li> </ul>	-		for quantitative					
11.00	7.4.3	organis	sms	<b>mplers to measure pe</b> States Geological Surv	-	errestrial and aqu	atic/terrestrial					
11.20	7.4.4	metho	d for the quan	ased passive samplers atification of pesticides of Strasbourg, France	•		SMS and LC-MSMS					
11.40	7.4.5	the No	rth Sea	<b>trap mass spectromet</b> hent University, Belgiu		ticides residues in	the Belgian part of					

12.00 Discussion









# Short Presentations

Protection AG , Switzerland & y, Belgium

will be presented by the authors as short presentations ers of the Topic 3 Scientific Committee during the poster sessions.

	Monday		Tuesday		Wednesday	,	Thursday		Friday Bauwens		Posters			Monday		Tuesday	Wednesday	'
			ew approach Britt Maestro				n <b>itoring</b> se' Diana Di Ma	ivungo	o, Ghent Uni	versity,	Belgium			++++ ENVIGO			<b>oster Presenta</b> Ghent University,	
10.20	6.2.1		i <b>lity on analys</b> eckman, Primo			utors in	side and outsid	de the	laboratory				10.20		Predic typol t	-	es emission pote	ntial t
11.00	6.2.2	Quality	Protection A	Act in 19	996		S. produce com	nmodit	ties since p	assage	of the Food	ł			K. Bonnot¹, C. Bedos¹, <u>L. Mamy</u> ¹, C. Bockstalle ¹INRA-AgroParisTech-Université Paris-Saclay ⁴InTheRes, France			
11.20	6.2.3	Risk-ba	Isot, Washingt ased reduction feh, Ghent Ur	n of hu	man exposu		olycyclic aromat	tic hyd	<b>irocarbons</b> i	n smol	ced fish in G	hana	10.30	P7.9	N. Bau	din <sup>1,2</sup> , M. Garrod	<b>op protection pr</b> , I. Bramke <sup>1</sup> , C. M sity of Warwick, l	lckillic
11.40 12.00	6.2.4		ewy, R.M. Loe				<b>terica for food s</b> Comahue, Arge	-	,				10.40	P7.24	<b>20 yea</b> M.A. K	n <mark>rs experiences</mark> halifa, M.A. Abba	<b>iciples of green</b> <b>in Egypt</b> Issy <sup>2</sup> , A.H. Masou ty; <sup>2</sup> Damanhour I	ud¹
12.00			500										10.50		Behav biodeg	ior of the chiral	herbicide imaza notodegradation T. Poiger	mox i
													11.00	P7.42	vegeta R. Zolfa	ted filter strips	elling of reactive	
													11.10	P7.43	A. Ritte	er <sup>1</sup> , D. Desmartea	<b>(VFS) modeling</b> u <sup>1</sup> , P. Hendley <sup>2</sup> ental Inc., USA; <sup>2</sup> f	
													11.20		practic S.K. La <sup>1</sup> ECOS	<b>es, soil and pes</b> mmoglia <sup>1,2</sup> , F. Br YS, INRA-AgroPa	eaching in cropp ticide properties un <sup>3</sup> , T. Quemar <sup>3</sup> , a arisTech-Universi al Sciences; <sup>5</sup> Sw	<b>s</b> J. Moe té Par
													11.30	P7.47	<u>R. Jura</u>		<b>leling software f</b> dt, W. Reiher, T. H , Germany	

11.40 **P7.50** Are landscape exposure models any good? <u>G.O. Hughes</u>, J. Carnall Cambridge Environmental Assessments, UK







jium

# to atmosphere from their molecular properties using the

r<sup>2</sup>, E. Latrille<sup>3</sup>, D. Patureau<sup>3</sup>, V. Rossard<sup>3</sup>, R. Servien<sup>4</sup>, P. Benoit<sup>1</sup> ; <sup>2</sup>Université de Lorraine; <sup>3</sup>Université de Montpellier;

# ts in Brazilian soils

can<sup>3</sup>, G. Bending<sup>2</sup>, S. Marshall<sup>1</sup> Syngenta Crop Protection, USA

# istry in residues analysis of pesticide chemical in water:

rsity, Egypt

in soils: Enantiomer composition differentiates between

# nsport of plant protection products underneath

# e United States

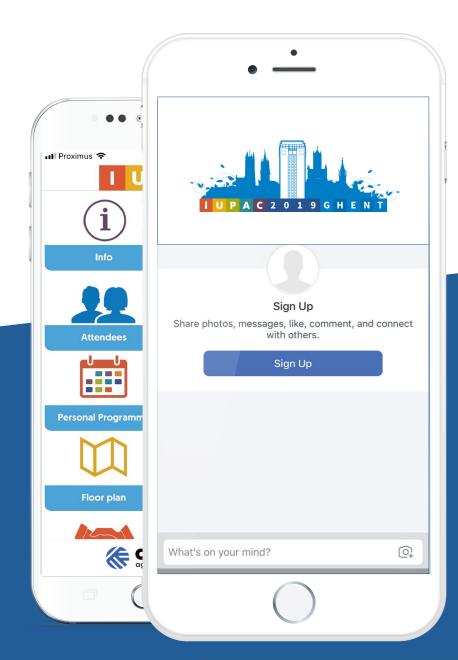
era Ltd, UK

# systems: Effect of uncertainties in climate, agricultural

beys<sup>4,5</sup>, E. Barriuso<sup>1</sup>, B. Gabrielle<sup>1</sup>, <u>L. Mamy<sup>1</sup></u> ris-Saclay; <sup>2</sup>CIRAD, SYSTEM; <sup>3</sup>ACTA, France; <sup>4</sup>Swedish o Chemicals Agency, Sweden

# vironmental risk assessment

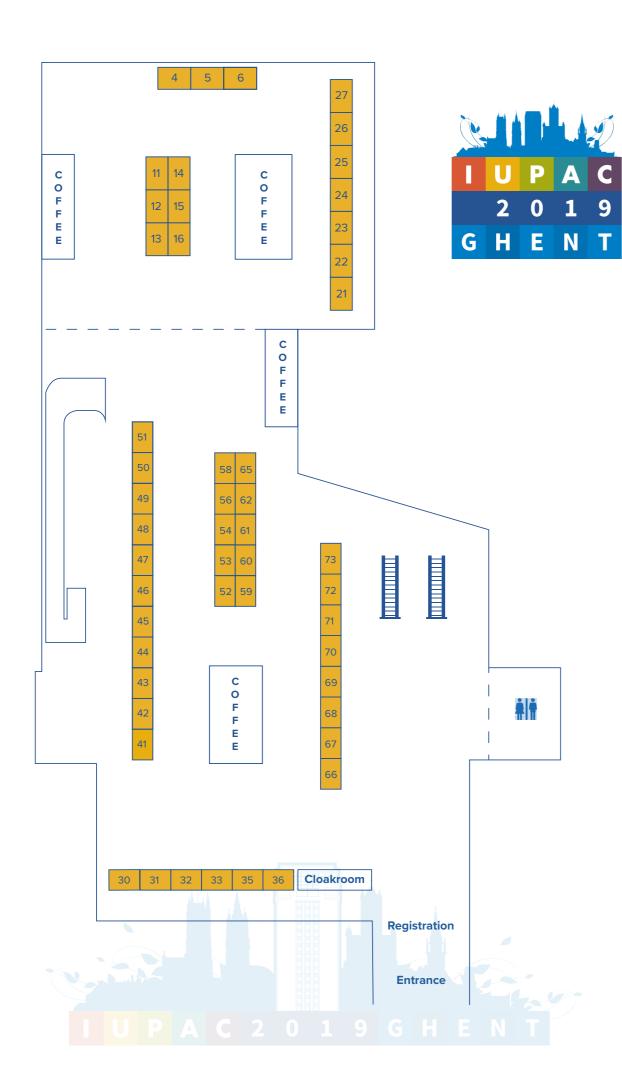






**IUPAC 2019** 





4	Ghent University
5	
6	Blue Frog Scientific
11	
12	BASF
13	
14	Croplife
15	Corteva
16	
21	Eurofins
22	CEM Analytical Services
23	Regulatory Science
24	EBRC
25	ARCHE Consulting
26	CEHTRA
27	SCC
30	b+b Automations- und Steuerungstechnik
31	
32	Oxford Lasers
33	YPARD
35	Exponent
36	Concept Life Sciences
41	APC
42	Heinz Walz
43	Fera
44	Globachem
45	HPC Standards
46	
47	Smithers Viscient
48	Noack Laboratorien
49	IZOTOP
50	TSG Consulting
51	GAB Consulting
52	
53	Envigo
54	Nouryon
56	Huntsman
58	Bayer
59	
60	Envigo
61	AGRO
62	Syngenta
65	Ashland
66	VITO
67	Staphyt
68	Sasol Performance Chemicals
69	SPEX Europe
70	ERM
70	knoell
71	
70	
72 73	Compliance Services International Charles River

72         Compliance Services International           61         AGRO           41         APC           25         ARCHE Consulting           65         Ashland           30         b+b Automations- und Steuerungstechnik           11         BASF           13         BASF           13         BASF           13         BASF           14         BASF           15         CEHTRA           22         CEM Analytical Services           73         Charles River           36         Concept Life Sciences           15         Corteva           16         Corteva           17         Envigo           59         Envigo           59         Envigo           60         Envigo           70         ERM           21         Eurofins           35         Exponent           43         Fera           51         GAB Consulting           44         Globachem           45         HPC Standards           56         Huntsman           49         IZOTOP           71 <t< th=""><th></th><th></th></t<>		
41       APC         25       ARCHE Consulting         65       Ashland         30       b+b Automations- und Steuerungstechnik         31       b+b Automations- und Steuerungstechnik         11       BASF         12       BASF         13	72	Compliance Services International
25         ARCHE Consulting           65         Ashland           30         b+b Automations- und Steuerungstechnik           11         12           12         BASF           13		
65Ashland30b+b Automations- und Steuerungstechnik31b+b Automations- und Steuerungstechnik1112BASF131358Bayer6Blue Frog Scientific26CEHTRA22CEM Analytical Services73Charles River36Concept Life Sciences15Corteva16Corteva14Croplife24EBRC52Envigo59Envigo602470ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting41Ghent University66VITO42Heinz Walz		
30         b+b Automations- und Steuerungstechnik           11         BASF           13         BASF           13         58           58         Bayer           6         Blue Frog Scientific           26         CEHTRA           22         CEM Analytical Services           73         Charles River           36         Concept Life Sciences           15         Corteva           14         Croplife           24         EBRC           52         Envigo           59         Envigo           60         20           70         ERM           21         Eurofins           35         Exponent           43         Fera           51         GAB Consulting           44         Globachem           45         HPC Standards           56         Huntsman           49         IZOTOP           71         knoell           48         Noack Laboratorien           54         Nouryon           32         Oxford Lasers           23         Regulatory Science           68		•
31         b+b Automations- und Steuerungstechnik           11         BASF           13         BASF           13         58           58         Bayer           6         Blue Frog Scientific           26         CEHTRA           22         CEM Analytical Services           73         Charles River           36         Concept Life Sciences           15         Corteva           14         Croplife           24         EBRC           52         Sa           53         Envigo           60         Envigo           60         Envigo           60         Envigo           70         ERM           21         Eurofins           35         Exponent           43         Fera           51         GAB Consulting           44         Globachem           45         HPC Standards           56         Huntsman           49         IZOTOP           71         knoell           48         Noack Laboratorien           54         Nouryon           32         Oxford La		Ashland
31BASF1112BASF131358Bayer6Blue Frog Scientific26CEHTRA22CEM Analytical Services73Charles River36Concept Life Sciences15Corteva16Corteva14Croplife24EBRC52Envigo59Envigo60070ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Ghent University66VITO42Heinz Walz		b+b Automations- und Steuerungstechnik
12BASF13Bayer6Blue Frog Scientific26CEHTRA22CEM Analytical Services73Charles River36Concept Life Sciences15Corteva16Corteva16Corteva17EBRC52Same53Envigo60ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Ghent University62Syngenta50TSG Consulting42Heinz Walz		Ŭ
131358Bayer6Blue Frog Scientific26CEHTRA22CEM Analytical Services73Charles River36Concept Life Sciences15Corteva16Corteva14Croplife24EBRC52Envigo59Envigo606070ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Shephyt62Syngenta50TSG Consulting41Ghent University66VITO42Heinz Walz		
58Bayer6Blue Frog Scientific26CEHTRA22CEM Analytical Services73Charles River36Concept Life Sciences15Corteva16Corteva14Croplife24EBRC52Envigo60Envigo70ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Sfe Consulting44Ghent University65VITO42Heinz Walz		BASF
6Blue Frog Scientific26CEHTRA22CEM Analytical Services73Charles River36Concept Life Sciences15Corteva16Corteva14Croplife24EBRC52Envigo59Envigo60Concept Life Sciences70ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Sfic Consulting44Ghent University50TSG Consulting41Ghent University66VITO42Heinz Walz		_
26CEHTRA22CEM Analytical Services73Charles River36Concept Life Sciences15Corteva16Corteva14Croplife24EBRC52Envigo606070ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Ghent University5Ghent University5VITO42Heinz Walz		
22CEM Analytical Services73Charles River36Concept Life Sciences15Corteva16Corteva14Croplife24EBRC52Envigo606070ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Smithers Viscient43Ghent University5OTSG Consulting44Ghent University54VITO42Heinz Walz	-	-
73Charles River36Concept Life Sciences15Corteva16Corteva14Croplife24EBRC52Envigo59Envigo60ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting41Ghent University66VITO42Heinz Walz		
36Concept Life Sciences15Corteva16Corteva14Croplife24EBRC52Envigo53Envigo60Envigo70ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University66VITO42Heinz Walz		
15Corteva16Corteva14Croplife24EBRC52Free and a strain of the stra		
16Corteva14Croplife24EBRC52Farage53Envigo60ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Srex Europe67Staphyt62Syngenta50TSG Consulting4Ghent University56VITO42Heinz Walz		Concept Life Sciences
14Croplife24EBRC52Finition53Envigo60ERM70ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University66VITO42Heinz Walz		Corteva
24EBRC5253596070ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71Knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University66VITO42Heinz Walz		
5253596070ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5Ghent University66VITO42Heinz Walz		
53Envigo59Envigo60ERM70ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5Ghent University66VITO42Heinz Walz		ERKC
Envigo596070ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University66VITO42Heinz Walz		
6070ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University66VITO42Heinz Walz		Envigo
70ERM21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Staphyt62Syngenta50TSG Consulting4Ghent University66VITO42Heinz Walz		
21Eurofins35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Staphyt62Syngenta50TSG Consulting4Ghent University66VITO42Heinz Walz		EDM
35Exponent43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Spex Europe67Staphyt62Syngenta50TSG Consulting4Ghent University66VITO42Heinz Walz		
43Fera51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Sfext Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5Ghent University66VITO42Heinz Walz		
51GAB Consulting44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient476967Staphyt62Syngenta50TSG Consulting4Ghent University5VITO42Heinz Walz		
44Globachem45HPC Standards56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University66VITO42Heinz Walz		
56Huntsman49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47SPEX Europe69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5VITO42Heinz Walz	44	
49IZOTOP71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient476969SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5VITO42Heinz Walz	45	HPC Standards
71knoell48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient476969SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5VITO42Heinz Walz	56	Huntsman
48Noack Laboratorien54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient476969SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5VITO42Heinz Walz	49	IZOTOP
54Nouryon32Oxford Lasers23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5VITO42Heinz Walz	71	knoell
32     Oxford Lasers       33     Regulatory Science       68     Sasol Performance Chemicals       27     SCC       46     Smithers Viscient       47     69       69     SPEX Europe       67     Staphyt       62     Syngenta       50     TSG Consulting       4     Ghent University       66     VITO       42     Heinz Walz	48	Noack Laboratorien
23Regulatory Science68Sasol Performance Chemicals27SCC46Smithers Viscient476969SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5VITO42Heinz Walz	54	Nouryon
68Sasol Performance Chemicals27SCC46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5VITO42Heinz Walz	32	Oxford Lasers
27SCC46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5Ghent University66VITO42Heinz Walz	23	Regulatory Science
46Smithers Viscient47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5Othersity66VITO42Heinz Walz	68	
47Smithers Viscient69SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5Ghent University66VITO42Heinz Walz	27	SCC
4769SPEX Europe67Staphyt62Syngenta50TSG Consulting4Ghent University5Other Construction66VITO42Heinz Walz	46	Smithers Viscient
67Staphyt62Syngenta50TSG Consulting4Ghent University5066VITO42Heinz Walz	47	Smithers viscient
62Syngenta50TSG Consulting4Ghent University566VITO42Heinz Walz	69	SPEX Europe
50     TSG Consulting       4     Ghent University       5     VITO       42     Heinz Walz	67	Staphyt
4     Ghent University       5     66       VITO       42     Heinz Walz	62	Syngenta
Ghent University       5       66     VITO       42     Heinz Walz	50	TSG Consulting
5     66     VITO     42     Heinz Walz	4	Ghent University
42 Heinz Walz		
33 YPARD		
	33	YPARD

IUPAC 2019 wishes to thank the following sponsors for their support:

AGRO APC Arcadis **ARCHE** Consulting b+b Automations- und Steuerungstechnik **Blue Frog Scientific** CEHTRA **CEM Analytical Services** Clariant **Compliance Services International Concept Life Sciences** Crelan EBRC ERM Exponent Fera FMC **Ghent University** Globachem Heinz Walz **HPC** Standards **IZOTOP** knoell Noack Laboratorien **Oxford Lasers** Primoris **Redebel Regulatory Affairs Regulatory Science** Sasol Performance Chemicals **Smithers Viscient SPEX Europe** Staphyt Stepan Sumitomo Chemical **TSG** Consulting VITO YPARD



**D** • BASF We create chemistry





















# Registration

## **Congress Registration Fees On-Site**

IUPAC & ECPA <sup>1</sup>		700 EUR
IUPAC	Participant Student	600 EUR 400 EUR
ECPA (May 22-23) <sup>2</sup>		600 EUR
ISCP (May 21) <sup>3</sup>	Participant Student	300 EUR 200 EUR

<sup>1</sup>With full access to the ISCP programme on May 20 <sup>2</sup>With full access to the IUPAC programme on May 22-23 <sup>3</sup>With full access to the IUPA programme on May 21

## **Social Events Registration Fees On-Site**

IUPAC Welcome Reception, May 19	0 EUR
IUPAC City Tour, May 20	15 EUR
IUPAC Field Excursion, May 22	50 EUR
IUPAC Banquet, May 23	50 EUR

The registration fee includes:

Access to all scientific sessions

Access to the industrial exhibition

Conference bag with programme, tourist and other information

• Daily Lunches and coffee breaks as announced in the programme

# **Registration Desk**

The registration desk of IUPAC 2019 is located on level 0 of the ICC.

**On-site Registration Opening Times:** 

Sunday, May 19	15.00 – 19.00 hrs
Monday, May 20	07.30 – 18.00 hrs
Tuesday, May 21	07.30 – 18.00 hrs
Wednesday, May 22	07.30 – 18.00 hrs
Thursday, May 23	08.00 – 18.00 hrs
Friday, May 24	08.00 – 13.00 hrs

# Badges

Participants are obliged to wear the official IUPAC 2019 badges on all occasions.

Lost Badges Participants who lost their badge will have to register and pay anew.

# **Social Activities**

## Welcome Reception

From 18.00 until 19.00 hrs all participants and exhibitors are welcome in the exhibition halls (Arteveldeforum and Pedro De Gante Room) for drinks and snacks.

## **City Tour**

After a walk from the ICC to the city centre, we will embark for an enthralling boat tour on the waterways of the medie-val centre of Ghent, with live or audio-guide, admiring its monuments:
1) St Bavo's Cathedral, the Belfry and St Nicholas' Church
2) old guildhalls of boatmen, masons, grain measurers, fishmongers, hagbutters, etc.
3) the Castle of the Counts and the Prince's Court
4) the old Fish Market facing the even older Meat Hall
5) the more than solid 13th-century monasteries previously occupied by Augustinians and Dominicans
6) the Ancient Port of Ghent with its quay walls and mercantile houses, never too far away from shady inns packed with girls of easy virtue, etc.

## Registration is mandatory.

# **Field Excursions**

On Wednesday, the IUPAC programme ends between 12.00 and 12.40 hrs and the busses leave at 13.00 hrs to the various field excursions. Take-away lunch will be available on level 0 in the exhibition hall. Please note that eating is NOT allowed on the busses. More information can be found in the App.

## Registration is mandatory.

# **IUPAC Banquet**

Scheduled on the last evening of the IUPAC Congress, the IUPAC Banquet will be an ideal moment to discuss the experiences of the past week. Immediately after the Congress, you are welcome in the Casino Room on level 0 for a 3-course dinner.

## Registration is mandatory.



# **General Information**

# Venue

International Convention Center Ghent (ICC) Van Rysselberghedreef 2 (Citadelpark) 9000 Ghent - Belgium https://www.iccghent.com

## Language

The official language of IUPAC 2019 is English.

# Abstracts of Invited Lectures and Oral Presentations

The abstracts of the oral and poster presentations can be consulted via the mobile App or on the IUPAC website.

## **Conventional Posters and ePosters**

Conventional posters are on display at the Minneplein on level 1. Poster tours are organised on Monday, Tuesday and Thursday at lunch time (13.00 – 14.00 hrs).

ePoster corners are also installed at the Minneplein on the level 1 and can be viewed throughout the Congress.

# **Speaker's Corner**

Speakers with oral presentations are requested to upload their PowerPoints onto the central server system at least 2 hours prior to their scheduled presentations. The Speaker's Corner is located on level 1, next to the Auditorium.

# Coffee and Lunch

Coffee will be served in the exhibition halls on level 0. Lunch is included in the registration fee and is served in the exhibition halls on level 0.

## **Disabled Persons**

The International Convention Center Ghent is entirely wheelchair accessible.

## Cloakroom

A guarded cloakroom is available on level 0. Luggage can also be stored here.

## Liability

In registering for IUPAC 2019, participants agree that neither UGent nor the Organising Secretariat assume any liability whatsoever. Participants should therefore organise their own health, travel and personal insurances.

# **Emergency Number**

In case of emergencies (police, ambulance), dial 112.

## Social Media

Follow us on Facebook and Twitter and share your information using the official hashtag #IUPACNextGen.

## No photo/filming areas

In case you do NOT wish to be filmed or photographed during the IUPAC Congress, please take a seat at the back of the meeting rooms. During breaks, please go to the 'no photo' catering area.

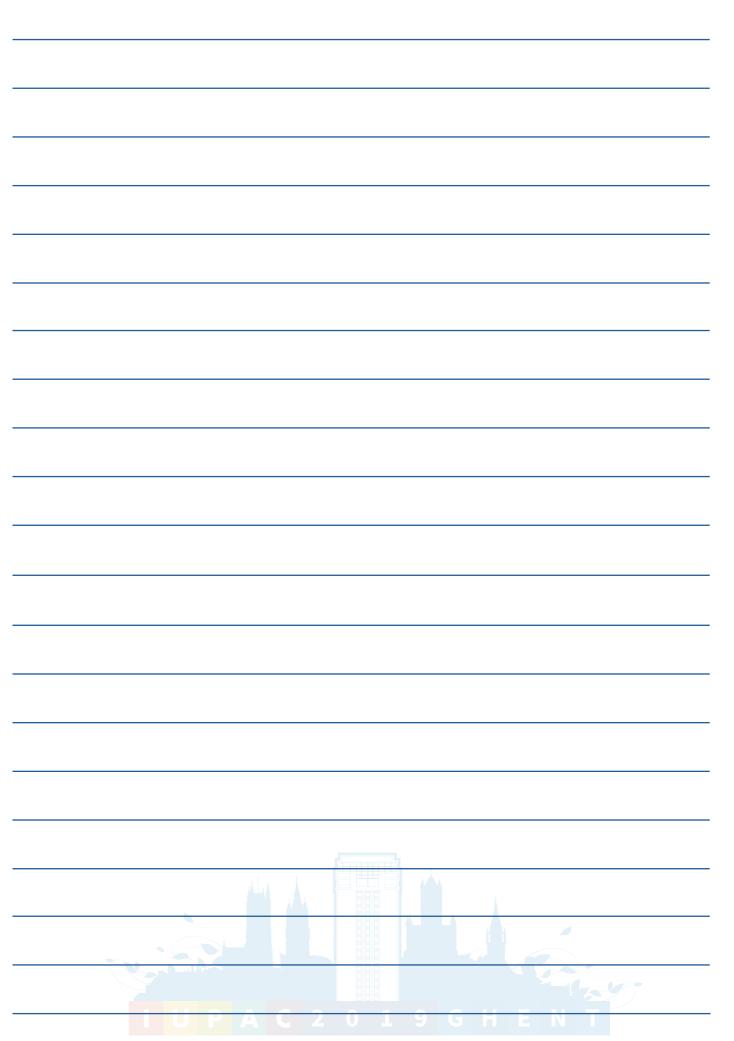
## Mobile App

Download the IUPAC 2019 app in the App Store and Google Play by scanning the below QR-code.

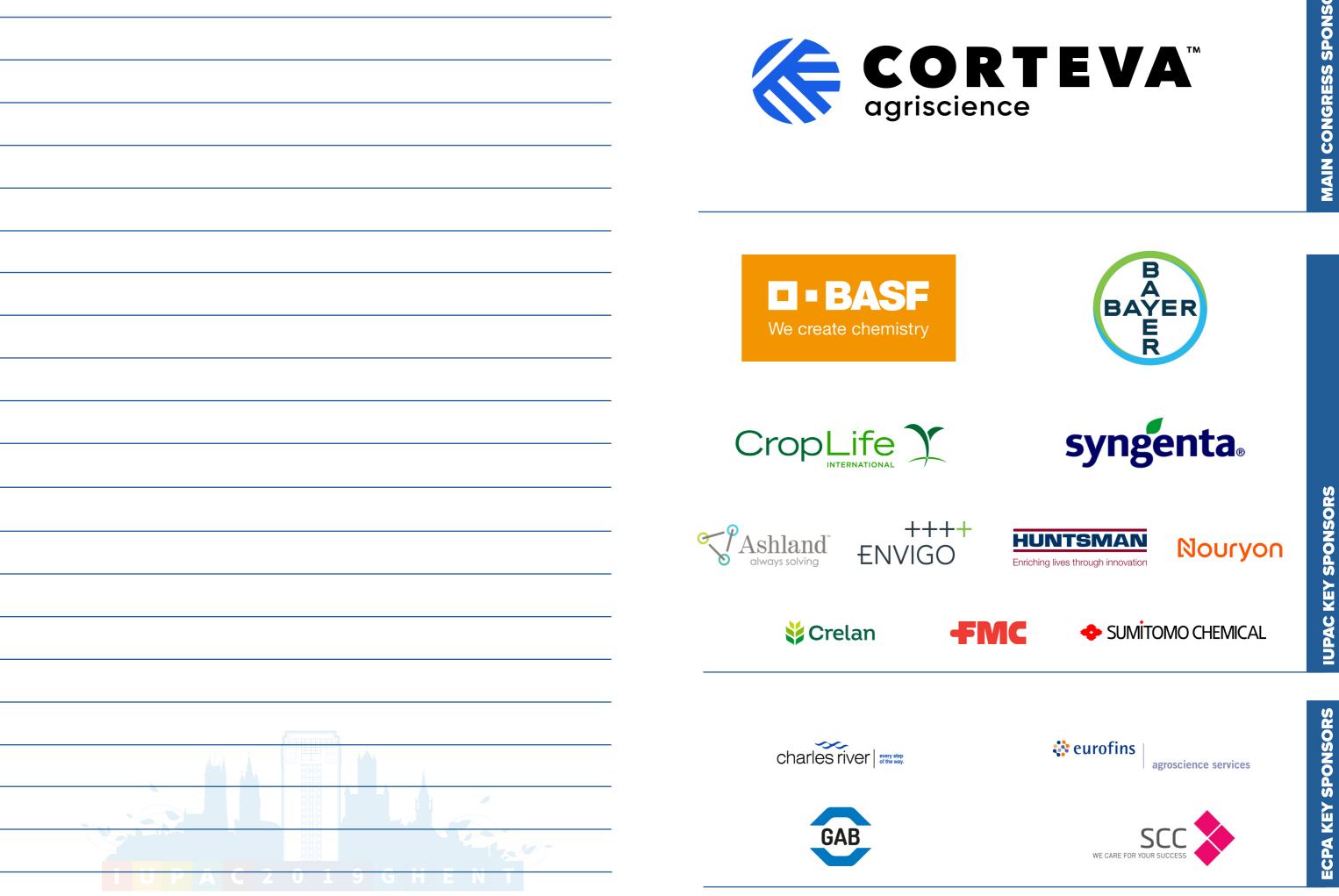




App Store









# A BRAND NEW AGRICULTURE COMPANY FOR A BRAND NEW WORLD

Our purpose is to enrich the lives of those who produce and those who consume, ensuring progress for generations to come.

KEEP GROWING.



Agriculture Division of DowDuPont