PROGRAMME



33rd ANNUAL MEETING OF THE TREE PROTECTION CO-OPERATIVE PROGRAMME (TPCP) AND THE DSI-NRF CENTRE OF EXCELLENCE IN PLANT HEALTH BIOTECHNOLOGY (CPHB)



Venue: Future Africa Auditorium, University of Pretoria

TUESDAY, 10 MAY 2022

08:00-08:15	Sign-in and systems check
Session 1: 08:15-08:20	Partnerships for a competitive forestry sector Welcome and setting the scene for the day Prof. Emma Steenkamp, Director of the CPHB, FABI, University of Pretoria
08:20-08:30	Reimagining public-private partnerships for impact at the University of Pretoria Prof. Tawana Kupe , Vice-Chancellor, University of Pretoria
08:30-08:50	A current perspective on the state of Forestry in South Africa Mr Danny Knoesen, General Manager, NCT Forestry Co-operative Ltd.
08:50-09:05	The TPCP in 2021 Prof. Bernard Slippers, Director of the TPCP
09:05-09:30	Panel discussion on Partnerships for Forest Biosecurity: Prof. Treena Burgess, Murdoch University, Australia Dr Stuart Fraser, Scion, New Zealand Dr Rodrigo Ahumada, Bioforest SA, Chile
	Dr Jeff Garnas, University of New Hampshire, USA Dr ShuaiFei Chen, Chinese Academy of Forestry, China
09:30-10:00	GROUP PHOTO & COMFORT BREAK
Session 2: 10:00-10:20	Biosecurity and tree health management in a changing environment Guest speaker: Protecting our forests – reducing the spread of invasive plant pathogens from urban ecosystems Dr Brett Summerell, Director Research & Chief Botanist at the Australian Institute of Botanica Science, Australia
10:20-10:35	The evolving picture of pine needle diseases around the world Prof. Irene Barnes, University of Pretoria
10:35-10:55	Five-minute speed talks Dr Michelle Schroder: Distribution and prevalence of parasitoids of the eucalypt wood borers. Phoracantha spp. Felipe Balocchi: Climate change and emerging disease of Araucaria trees in Chile Nam Pham: Elsinoe necatrix: An unexpected new threat to Eucalyptus around the world
10:55-11:00	Dr Katrin Fitza and Ms Firehiwot Eshetu: Diversity matters in biological control systems: The Sirex-Deladenus story in Australasia Questions and discussion
11:00-11:30	TEA
Session 3: 11:30-11:50	Data, 'omics' and the future of tree health management Opening talk: Data science to unlock the potential of phenomes and genomes for more productive farming and forestry



11:50-12:05	Prof. Abdoulaye Diallo, Université du Québec à Montréal (UQÀM) Chemical phenotypes of forest trees that guard against insect pests and fungal pathogens Prof. Almuth Hammerbacher , University of Pretoria
12:05-12:20	The genetics of tree-pathogen interactions Prof. Sanushka Naidoo, University of Pretoria
12:20-12:40	Five-minute speed talks Mr Christoff Joubert: Biochemistry of the <i>Gonipterus</i> sp. 2 - <i>Eucalyptus</i> interaction Ms Myriam Solis: Towards marker assisted breeding: the role of phenotyping <i>Teratosphaeria</i> destructans infection Dr Tanay Bose: Progress in the operationalizing of the forest pathogen screening facility
12:40-12:45	Dr Quentin Guignard: New tools to study chemical ecology of forest pests Questions and discussion
12:45-13:00	Live demonstration of the Information Hub data integration and diagnostic clinic
13:00-14:00	LUNCH (Future Africa Dining Hall)
Session 4: 14:00-14:15	Applied tree health management: Biological control, diagnostics and extension Guest speaker: The impact of 20 years of transferring knowledge on tree health management between Colombia and South Africa Dr Carlos Rodas, Forest Health Protection Programme, Smurfit-Kappa, Colombia
14:15-14:30	Biological control of forest pests
14:30-14:45	Prof. Brett Hurley, University of Pretoria Diagnostics, extension and new reports to keep trees healthy Dr Trudy Paap
14:45-15:00	Connecting the ICFR-FABI data points to support forest health management Dr Ilaria Germishuizen ICFR, University of KwaZulu-Natal
15:00-15:25	5 minute speed talks Ms Caitlin Gevers: Evolving insect communities in <i>Eucalyptus</i> galls Mr Harmen Barten: New biological control options for <i>Gonipterus</i> sp. 2 Privilege Makunde: Current and future importance of psyllids for <i>Eucalyptus</i> forestry Murilo Ribeiro: Rearing <i>Gonipterus</i> sp. 2 for control: Connecting knowledge from Brazil and South Africa
15:25-15:30	Questions and discussion
15:30-16:00	TEA & LAMP PCR machine demonstration
Session 5: 16:00-16:20	Genome platforms for the development of plant health management tools Guest speaker: Modern diagnostics for forest pathogens Prof. Caterina Villari, Warnell School of Forestry & Natural Resources, University of Georgia
16:20-16:35	Developing genomics platforms to anchor forest pathology Prof. Brenda Wingfield, Dr. Tuan Duong and Prof. Martin Coetzee
16:35-16:50	Unlocking the potential of a global culture collection for local and regional plant health: HexagonBio and CMW-IA Prof. Cobus Visagie, University of Pretoria
16:50-17:10 17:10-17:15	Six-minute speed talks Ms Benny Swalarsk-Parry: Understanding virulence in Fusarium circinatum Dr Janneke Aylward: Towards marker assisted breeding: The role of pathogen genetics in Teratosphaeria destructans disease systems Dr Gudrun Dittrich-Schröder: Progress with developing gene editing tools for pest management Questions and discussion
17:15 18:00-late	Cocktails (Future Africa gardens) Dinner and evening activity (Future Africa Dining Hall)



WEDNESDAY 11 MAY 2022

Session 1: 08:15-08:35	Sensors, data and the future of plant health management Guest speaker: Engineering, robotics, sensors and agriculture/forestry: Options for
	collaborations
08:35-08:55	Prof. Wynand Steyn , Engineering 4.0, Head of the School of Engineering, University of Pretoria Panel discussion – Sensors and the future of plant health
	Prof. Wynand Steyn, University of Pretoria
	Prof. Abdoulaye Diallo, Université du Québec à Montréal (UQÂM) Prof. Wouter Maes, University of Ghent
	Prof. Trudi Joubert, University of Pretoria
08:55-09:15	Five-minute speed talks
	Mr Hannes Strydom: Connecting data, creating information – A live demonstration of the Information Hub Digital Twin
	Mr Lihan Esterhuizen: Early detection of root disease through hyperspectral sensing of root
	disease in leaves of <i>Eucalyptus</i> Mr Phumlani Nzuza: Remote sensing of <i>Gonipterus</i> sp. 2
	Mr Tsepang Polaki: Using AI to unlock weather data for forestry and agricultural plant health
00:45 00:20	management Ougstions and discussion
09:15-09:30 09:30-10:00	Questions and discussion Closing of the meeting and final discussions
10:00-10:30	TEA
10.00.11.00	
10:30-14:30	
	TPCP Board meeting (Future Africa Conference Room 2)

