

III Hops and Beer Days

July 20 and 21, 2023

Agrarian School of Bragança

Dionísio Gonçalves Auditorium

Program

July 20

9h30 Opening session

Polytechnic Institute of Bragança

Bragança City Hall

Northern Regional Directorate of Agriculture and Fisheries

Bralúpulo

Organizing Committee

10h00 Development of new hop varieties

Moderator: Tiago Brandão (SUPERBOCK Group)

- The development of new hop varieties and hop research at the Carlsberg Research

Ilka Braumann (Carlsberg Research Laboratory)

Debate

Coffee break

11h30 Aspects of crop agronomy

Moderator: M. Ângelo Rodrigues (CIMO/SusTEC – IPB)

- Manejo del riego del hopo en base a sensores de contenido de agua en el suelo

María Fandiño¹, Marta Rodríguez-Febereiro¹, Emilio Corral², María Jesús Meira-Rodríguez¹, Benjamín J. Rey¹, Javier J. Cancela¹ (1EPSE – USC, 2LU.TE.GA.)

- Soil condition and productivity of hop fields in Northeast Portugal in response to various agro-environmental factors

Sandra Afonso¹, Margarida Arrobas², Ermelinda Pereira², Jorge Sá Morais³, António Rodrigues⁴, M. Ângelo Rodrigues² (1CFE – CITEUC, 2CIMO/SusTEC – IPB, 3UNIQA – IPB, 4Bralupulo)

Debate

Lunch break

IPB Canteen

14h00 From hops to beer

Moderator: João Paulo Castro (CIMO/SusTEC – IPB)

- Bitterness, a brewing challenge

Teresa Sampaio (Central Society of Beers and Beverages)

- Factors that influence the transfer of compounds from hops to beer during the dry-hopping process

Júlio C. Machado Jr., Miguel A. Faria, Isabel M.P.L.V.O. Ferreira (LAQV/REQUIMTE)

- Analysis of hop varieties and production of carbonated lemonades: NIR and ETongue to evaluate similarities

Luís G. Dias¹, M. Letícia Estevinho², J. Sá Morais² (1CIMO/SusTEC – IPB, 2UNIQA – IPB)

- Linguistic and cultural analysis of slogans and advertising spots of Czech and Polish beer brands

Janusz Karpeta (Business Faculty, Czech Republic)

Debate

Coffee break

15h30 Various applications of the hop plant

Moderator: Olívia Pereira (CIMO/SusTEC – IPB)

- Volatiloma de las principales varieties of hops del Norte de España

M. Vilanova^{1,2}, B. Costa¹, J. Fraile³, R. Pérez-Parmo⁴, E. Corral⁵, J. Valladares⁶, M. Rodríguez-Febreiro⁷, M. Fandiño⁷, M. J. Sáiz-Abajo⁸, A. Moreno-Ruiz⁸, J. J. Cancela^{2,7} (1ICVV – CSIC,

2USC, ICVV – CSIC, 3SAT Hops of León, 4NEIKER – BRTA, 5LU.TE.GA, 6CIAM – AGACAL, 7EPSE – USC, 8CNTA)

- Potential use of *Humulus lupulus* extract as a cosmetic ingredient for atopic dermatitis

Ana Rita Gama¹, José Martínez-de-Oliveira¹, Carmen Lisboa³, Ana Palmeira-de-Oliveira^{1,3}, Rita Palmeira-de-Oliveira^{1,3} (1FCS, CICS – UBI; 2 FMUP, CHUSJ, CINTESIS/RISE; 3Labfit – HPRD)

- Comparison of hop bioactive compounds in Nugget and by-product

Briolanja dos Santos¹, Vanessa Paula¹, Luís Pedro², Olívia R. Pereira¹, Hugo Goes¹, Susana M. Cardoso³, Maria João Sousa¹ (1CIMO/SusTEC – IPB, 2CBV/CESAM – FCUL, 3LAQV/REQUIMTE)

- Upcycling *Humulus lupulus* residues: from beer waste to special cosmetic applications

Ana Rita Gama¹, José Martínez-de-Oliveira¹, Carmen Lisboa³, Ana Palmeira-de-Oliveira^{1,3}, Rita Palmeira-de-Oliveira^{1,3} (1FCS, CICS – UBI; 2 FMUP, CHUSJ, CINTESIS/RISE; 3Labfit – HPRD)

Debate

18:00 Sociocultural Program and Commented Beer Tastings

City center (Alexandre Herculano Street)