Pan-European Workshop

How to Study and Control Fungal Contamination in Bottled Water

13 - 15 September 2004
Universidade do Minho
Braga, Portugal

Registration:
Registration is required for all participants. Please complete and return the Registration Form to the Secretariat. The deadline for early registration is 31st August 2004.

Registration fee:
Conference (half-day) Registration: 50 Euro (includes: documentation and refreshments).
Full Registration: 125 Euro (includes: documentation, refreshments and lunches).
Last minute Registration: plus 30 Euro

Cancellations:
All cancellations must be sent in writing and addressed to the Secretariat.
No refund will be given after 31st August 2004;
Refunds will be paid after the Meeting. For refunds please state your full bank account details.

Workshop Venue & Location:
The Workshop will be held at the "Convento dos Congregados", which is located in one of the main avenues of the city centre, "Avenida Central" (door number 100). Further information about Braga can be found at:
http://www.amvc.pt/site/ingles/concelhos/braga
http://portugal-info.net/costaverde/braga.htm

Travel to Braga:
By Air: Participants should take flights to Oporto Airport. Daily flights are available to and from most important European cities. All participants arriving or departing by air are advised to travel by taxi between the airport and Braga, as no regular direct coaches or trains are available. The taxi fare is 40-50 Euro.

By Train: Participants entering Portugal from Spain should travel to Porto and take the connection Porto – Braga.

By Car: For participants travelling by car through Spain it is suggested to enter Portugal at Vilar-Formoso. Starting here, the IP5 dual carriage-way leads to Aveiro, but at Albergaria (176 Km) participants should enter the A1 motorway and go to north in the direction of Porto (58 km), cross the city of Porto, using the Freixo bridge, without leaving the motorway and exit at the junction for the A3 motorway to Braga (49 Km).

Accommodation:
Braga has a large number of hotels and hostels. Reservation and payment should be made directly with the hotels. However, we recommend the following hotels (all of them are within walking distance of the Workshop Venue - 10/15 min. max):

Hotel Turismo Braga *****
Praça João XXI
4715-053 Braga / Portugal
htb@hotelturismobraga.com

Hotel Caranda****
Avenida da Liberdade, 96
4715-053 Braga / Portugal
hec@hotelcaranda.com

Hotel Ibis**
Rua do Carmo, 13
4700-329 Braga / Portugal
ibis2@accor-hotels.com

Hotel D. Sofia***
Largo S. João do Souto, 131
4700-326 Braga / Portugal
hotel.d.sofia@oninet.pt

Alberg Senhora-A-Branca ****
Largo da Senhora-A-Branca, 58
4710-443 Braga / Portugal
albergariasabrancia@oninet.pt

Language:
English will be the official language of the Workshop and no simultaneous translation will be provided.

Local Organising Committee:
Nelson Lima
Armando Venâncio
Isabel Machado dos Santos
Ana Ribeiro
A. Patrícia Machado

Secretariat:
Micoteca da Universidade do Minho
Engenharia Biológica
Universidade do Minho
Campus de Gualtar
4710-057 BRAGA -PORTUGAL
Tel.: (+351)253 604403  Fax: (+351)253 678986
E-mail: micoteca@deb.uminho.pt

Organised by Micoteca da Universidade do Minho (P) in collaboration with CABI Bioscience (U.K.)

This Workshop is supported by EC, Quality of Life, Key Action 1 on Food, Nutrition and Health
CRAFT QLK1-2002-70843
COMBOW Project
The Workshop

Fungal spoilage of bottled water can be demonstrated as visible clumps of growth inside the bottle. This is not acceptable to the consumer and results in significant financial loss to bottlers due to product recall and down-time caused by the need for special sanitation treatments. However, the major loss is indirect: it is the result of bad publicity created by such incidents.

Fungi can be opportunistic human pathogens particularly if the individual is immunocompromised. They cause taste and odour problems in water in addition can produce toxic compounds called mycotoxins.

Standardised methods to detect fungi are not currently employed by the bottling companies’ quality control systems. Furthermore, analyses for fungi in bottled water using conventional methods are time consuming (a minimum of two weeks is required for growth and identification). Simple and rapid methods which can be used on site for fungal biomass detection in bottled water do not exist.

In order to study and control fungal contamination in bottled water, a project was undertaken to develop standard methodologies to minimise fungal contamination. A one year fungal survey was carried out, where novel formulation media were studied to ensure optimal recovery of individual fungi, molecular methods based on PCR were used, mycotoxin presence and absence was analysed, early detection fluorescent staining methods were applied, and a HACCP programme was put in place.

If you are actively involved in bottling company’s laboratories or you have any interest in this subject we invite you to attend this workshop. The first half day is a conference designed especially for decision makers, managers, directors, etc. The other two full days consist of practicals and demonstration sessions specifically aimed at quality control laboratories.

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday 13th September</th>
<th>*Tuesday 14th September</th>
<th>*Wednesday 15th September</th>
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</thead>
<tbody>
<tr>
<td>09.00h</td>
<td>Practical lecture I</td>
<td>Identification and Characterisation of Fungi</td>
<td>Practical lecture III</td>
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<tr>
<td></td>
<td>Zofia Kozakiewicz and Rita Serra</td>
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<td>Methods to Detect and Characterise Fungi – Molecular Approach</td>
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<td>10.30h</td>
<td>Coffee Break</td>
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<td>11.00h</td>
<td>Registration</td>
<td>Practical lecture I</td>
<td>Practical lecture III</td>
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<td>Ecology of Fungi</td>
<td>Methods to Detect Fungi – Fluorescent Microscopic Approach</td>
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<td>Zofia Kozakiewicz and Rita Serra</td>
<td>A. Patrícia Ribeiro and Ana Ribeiro</td>
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<td>12.30h</td>
<td>Lunch</td>
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<tr>
<td>14.00h</td>
<td>Opening Session</td>
<td>Practical lecture II</td>
<td>Practical lecture IV</td>
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<tr>
<td></td>
<td>Nelson Lima</td>
<td>Methods to Isolate and Grow Fungi – Media</td>
<td>Mycotoxins, Ergosterol and Fungal Quantification</td>
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<td>14.10h</td>
<td>Why a RTD Cooperative Project on Mycological Contaminations in Bottled Water?</td>
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<td>Marcel Bony</td>
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<td>Rhone Diagnostics Technologies, Glasgow, U.K.</td>
<td>Belinda Luke</td>
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<td>14.45h</td>
<td>Fungi in Drinking Waters – An Overview</td>
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<td></td>
<td>Joan Kelley</td>
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<td>15.30h</td>
<td>Coffee Break</td>
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<tr>
<td>16.00h</td>
<td>Traditional Detection and Isolation Methods</td>
<td>Practical lecture II</td>
<td>Practical lecture IV</td>
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<td>Belinda Luke</td>
<td>Methods to Isolate and Grow Fungi – Techniques</td>
<td>Fungal Metabolic and Enzymatic Activities</td>
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<td>16.30h</td>
<td>Rapid Detection Methods</td>
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<td>Concluding Remarks</td>
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<td>Paul Dunnigan</td>
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<td>Rhone Diagnostics Technologies, Glasgow, U.K.</td>
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<td>17.00h</td>
<td>HACCP in Bottle Water</td>
<td>Companies – A Case Study</td>
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<td>Companies – A Case Study</td>
<td>Vincente de Sousa</td>
<td>Concluding Remarks</td>
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<td>17.30h</td>
<td>Concluding Remarks</td>
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*Only 20 persons can attend the practical/demonstrative lectures. They will be selected by order of registration.
Registration form

Name __________________________________________

Organisation ______________________________________

Address _________________________________________

Phone _________________________________________

E-mail _________________________________________

☐ I Wish To Attend The Conference

☐ I Wish To Attend The Workshop

☐ Fee Enclosed

☐ 50 euro conference fee
☐ 125 euro full (conference plus workshop) fee

Euro funds only. Payment must be included with registration. Last minute registrants will be processed on-site at the meeting. Payments are to be made:

1. **By bank cheque payable to:**
   Micoteca da Universidade do Minho

2. **By bank transfer**

   **For domestic Participants only:**
   NIB: 003508230000238680046

   **For foreign Participants:**
   IBAN: PT50003508230000238680046
   Swift Code: CGDIPTPL
   Bank Name and Address: Caixa Geral de Depósitos (CGD), Universidade do Minho, Campus de Gualtar, 4710-057 Braga, Portugal