

# **REPORT ON ACTIVITIES**

carried out by the

## **European Brewery Convention**

in the period 2004 - 2005

**Information**

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# FOREWORD

Since 1947, the European Brewery Convention (EBC) has developed its activities to become the expert organisation for all areas of brewing & malting science and technology. The close cooperation between the brewing industry and scientists has been very fruitful for the European brewing industry.

Today EBC is a well-recognised brewing organisation, representing the national brewery associations of 20 European countries. EBC is best known for its biennial congresses, but it is also known by brewing experts for its many other activities on pre-competitive areas in brewing & malting. The high standard and value of these activities can be attributed to the active members of brewing companies, universities and research institutes who have given their invaluable and voluntary contributions to the entire brewing industry through EBC. This report describes the multitude of activities of EBC, showing the wide range of areas covered to promote the art and science of brewing and to support safe and wholesome beer. I hope that it will act as a useful reference for all parties involved and that it will also serve to lay out the future activities of EBC.

The future of the European Brewery Convention is challenging: in a changing world, EBC has to use its unique network of brewing experts from the industry, research institutes and universities in an improved manner, so that we can meet the new challenges. One great opportunity is to increase and focus our collaborative work with The Brewers of Europe, to provide the European brewing industry with even greater benefits than could be brought about by either organisation working alone.

In the two years described in this report, intensive discussions have taken place between EBC and The Brewers of Europe about how the cooperation between the two organisations could best be structured. The ultimate aim is to streamline and improve the activities of both organisations, to avoid duplication and thus to be more beneficial to the whole European brewing world.

It was agreed that the best future for EBC and its many stakeholders is full amalgamation into The Brewers of Europe. Management disciplines and governance structure will be used so that EBC can maintain an appropriate degree of independence. A proposal has been formulated whereby EBC will become an autonomous division of The Brewers of Europe, in future residing in Brussels (Belgium), managed by its own Executive Committee and reporting into the Board of The Brewers of Europe. The Brewers of Europe will be accountable only for approving the strategic direction and annual budget of EBC as submitted to it by the EBC Executive Committee. The transition will be gradual and should be completed by 2008.

EBC's mission for the coming years is to be recognized and respected as the technical and scientific arm of The Brewers of Europe, which it will strive to achieve by evolving with the needs of today and the future, and by developing its existing successful strategy of contributing scientific facts of value to the global brewing industry.

Hilary Jones  
President EBC

*May 2006*



# EBC MISSION, GOALS & ACTIVITIES

## **Mission Statement**

To be the primary organisation in brewing-related science and technology, serving all brewing, governmental and technical partners. To facilitate knowledge creation and transfer and collaboration between industrial and academic organisations, for the benefit of the brewing industry, consumers and the community.

## **Goals**

- to promote:
  - development of brewing-related science and technology
  - application of best practice in brewing technology
  - transfer of knowledge from other industries into brewing
- to act as the European advisory expert body on science and technology in brewing in cooperation with 'The Brewers of Europe' and other organisations
- to stimulate pro-actively and communicate developments in product safety, environmental issues, beer wholesomeness, nutrition and quality in support of moderate and responsible beer drinking
- to enable and enhance activities where non-competitive collaboration across the global brewing industry is the most effective mechanism in terms of impact, cost and time

## **Primary Activities**

- to provide scientific and technical expertise to The Brewers of Europe
- to maintain and develop a database of technical experts
- to organise biennial Congresses (renowned as the best in the world)
- to organise Symposia on speciality topics, for benchmarking and best practice dissemination
- to create and manage appropriate working groups (e.g. Analysis Committee)
- to publish material resulting from Congresses, Symposia, Committees and Groups

## 2 EBC OBJECTIVES 2006/2007

- To oversee and guide the merger of EBC with The Brewers of Europe.
- To restructure EBC's management to fit the new governance.
- To formulate clear and defined goals to achieve EBC's future role as the scientific & technical arm of The Brewers of Europe.
- To review all current activities and to bring these into alignment with the stakeholder groups and customers.
- To review terms of reference, objectives, time scales, leadership, membership, communication and success measures for the Committees & Groups.
- To develop plans to proactively manage and focus interactions amongst its international and interdisciplinary stakeholders and to establish forums for these interactions.
- To raise the profile of technical matters in the global brewing industry.
- To improve communication and to address the right audience.
- To align activity, cost, benefit and implementation.
- To use all available resources to make best use of the 'EBC Database of Experts'.
- To support The Brewers of Europe in the area of 'Beer & Safety' by offering the congresses and symposia as platforms for scientific and other discussion.
- To improve the technical programme of the congresses and to compile a more industry-focussed programme with more papers promoting development and application of best practice and the application of new technology on a commercial scale.
- To maintain and expand EBC membership and to continue to guide the new EBC member countries into cooperation in the technical area by using the knowledge of our industry that has been accepted as common knowledge.
- To finalize harmonising EBC and IOB (and other) methods of analysis with the ultimate aim to come to one book of unified analytical methods for the global brewing industry.
- To complete publication of the EBC Manuals of Good Practice.

## NEW MEMBERS

### **Croatia**

The Croatian Chamber of Commerce, as representative of the Beer, Malt and Hop Producers in Croatia, joined the European Brewery Convention as new member on 1 January 2004. The Council unanimously so decided after a positive advise from the Board, formulated in the 34<sup>th</sup> Board Meeting held on 11 December 2003.

## CHANGES IN MEMBERSHIP

### **Norway**

The Norwegian Brewers Association announced they can no longer play an active role in EBC, as a result of which they will no longer be represented in the Council Meetings. A corresponding Council Member has been nominated instead. This change took effect in September 2005.

### **United Kingdom**

The British Beer & Pub Association has become the official Member Organisation of EBC for the UK, replacing The Institute of Brewing & Distilling. This change was effectuated in July 2005.

## TERMINATION OF MEMBERSHIP

### **Romania**

The Romanian Brewers Association had been dissolved as per 1 March 2004; as a consequence its membership of EBC terminated per the same date.

### **Latvia**

The Breweries' Association of Latvia is no longer in the position to fulfil its financial obligations towards EBC and has requested suspension of their membership in October 2005.

### **Hungary**

The Association of Hungarian Brewers has withdrawn its membership of EBC as per 31 December 2005. Written notice announcing this decision had been received by 30 June 2004.

# 4 BOARD & COUNCIL

## 4.1 BOARD

### Composition of the Board May 2003 - October 2004

President	Mr. Jan Veselý (Czech Republic)
Vice Presidents	Dr. Horst-Gevert Bellmer (Germany)
	Mrs. Hilary L. Jones (United Kingdom)
	Mr. Esko Pajunen (Finland)
	Mr. Leo A. van der Stappen (The Netherlands)
Secretary General	Mrs. Marjolein van Wijngaarden (The Netherlands)

### Election two new Vice Presidents - October 2004

In the 114<sup>th</sup> Council Meeting (13 October 2004), two new Vice Presidents were elected for a period of four years:

- Dr. Stéphane Dupire (Belgium)
- Dr. Axel Th. Simon (Germany)

The new Vice Presidents fill the vacancies arisen from the retirement of Dr. Horst-Gevert Bellmer and Mr. Leo A. van der Stappen.

Dr. Dupire is Global Product Integrity Scientific Manager at InBev S.A., Leuven, Belgium. He is also invited professor at the Brewing School of the University of Louvain-la-Neuve. Dr. Dupire joined the EBC Council in 2002. He has been member of the Analysis Committee (1990-1997) and is currently member of the Brewing Science Group; he was member of the Biochemistry Group from 1992 until it became the Brewing Science Group in 1995.

Dr. Simon is CEO of Bitburger Holding and Executive Managing Director of Bitburger Brauerei Th. Simon GmbH, responsible for technique. He is also President of the Research and Education Institute for Brewing in Berlin (VLB) and Vice President of the Chamber of Commerce and Industry (IHK) in Trier. Dr. Simon joined the EBC Council in 1998.

### Election new President - October 2005

In the 116<sup>th</sup> Council Meeting (14 October 2005), the Council by acclamation elected

- Mrs. Hilary L. Jones (United Kingdom)

President of EBC for a period of four years. Mrs. Jones succeeds Mr. Jan Veselý in this function, who resigned from this post in August 2005. Mr. Veselý remains on the Board as a Vice President. Mrs. Jones acted as Interim President since August 2005. She is the first

female president in EBC's history.

Mrs. Jones is Technical Director (UK) and Head of Quality Operations for Scottish & Newcastle, based in Edinburgh, Scotland. She has an honours degree in Biological Sciences and is a Fellow of the Institute of Brewing and Distilling. She is also a Board Member for the International Centre for Brewing and Distilling at Heriot-Watt University in Edinburgh. Hilary Jones is EBC Council Member since 2002; she was elected Vice President in May 2003.

#### **Composition of the Board as from October 2005**

President	Mrs. Hilary L. Jones (United Kingdom)
Vice Presidents	Dr. Stéphane Dupire (Belgium)
	Mr. Esko Pajunen (Finland)
	Dr. Axel Th. Simon (Germany)
	Mr. Jan Veselý (Czech Republic)
Secretary General	Mrs. Marjolein van Wijngaarden (The Netherlands)

#### **Board Meetings**

In the period 2004-2005, eight Board Meetings were held, nrs. 35 up to and incl. 42. All meetings were held in Amsterdam at Schiphol Airport, except the 38<sup>th</sup> meeting which took place in Enschede (The Netherlands), the 39<sup>th</sup> meeting which took place in Brussels (Belgium) and the 40<sup>th</sup> meeting that was held in Prague (Czech Republic).

## 4.2

### **COUNCIL MEMBERS**

The following changes occurred:

#### **May 2004**

- Mr. Ivar Gradisar, Council Member for Croatia (new EBC Member)
- Mr. Søren Lisbjerg, Council Member for Denmark in succession to Mr. Kenneth Erdal
- Prof. Dr. Vladimir Maric, Council Member for Croatia (new EBC Member)
- Mr. Dan Unwin, Council Member for the United Kingdom in succession to Dr. Stuart W. Molzahn

#### **May 2005**

- Mr. Jan Willem Peppink, Council Member for The Netherlands in succession to Mr. Leo A. van der Stappen
- Mr. Jean-Jacques Scheffler, Council Member for France in succession to Mr. Gilbert Bauer
- Mr. Roman Susták, Council Member for Slovakia in succession to Mr. Stanislav Markus

#### **October 2005**

- Dr. Clemens Forster, Council Member for Austria in addition to Dr. Markus Liebl
- Mr. Francisco F. do Amaral (Council Member for Portugal) retired from the Council
- Mr. Marc Gross (Council Member for The Netherlands) retired from the Council
- Mr. Tore Hage (Council Member for Norway) has been succeeded by the Director of the Member Organisation, who will act as *corresponding* Council Member because Norway will no longer play an active role in EBC
- Mr. Dan Unwin (Council Member for the United Kingdom) retired from the Council; a successor has not been nominated
- Mr. Robert Sápi (Council Member for Hungary) retired from the Council as a result of

the termination of Hungary's membership of EBC per 31 December 2005

- Mrs. Inara Sure (Council Member for Latvia) retired from the Council as a result of the termination of Latvia's membership of EBC per October 2005

### 4.3 COUNCIL MEETINGS IN THE PERIOD 2004 - 2005

<i>year</i>	<i>nr.</i>	<i>location &amp; date</i>
2004	113	held in St. Gallen (Switzerland) on 7 May 2004 by kind invitation of Brauerei Schützengarten and the Swiss Breweries' Federation
	114	held in Brussels (Belgium) on 13 October 2004 in conjunction with a meeting of the Market & Technology Committee of The Brewers of Europe
2005	115	held during the 30 <sup>th</sup> EBC Congress in Prague (Czech Republic) on 15 May 2005, hosted by the Czech Brewers & Maltsters Association
	116	held in Brussels (Belgium) on 14 October 2005 in conjunction with a meeting of the Market & Technology Committee of The Brewers of Europe

### 4.4 SUBJECTS DISCUSSED IN THE COUNCIL

In addition to regular discussions on the activities of the EBC Committees & Groups, the Symposia, Congresses, Finance etc. and cooperation with other organisations, the following subjects had special attention in the course of 2004/2005:

#### **The future of EBC – Cooperation with The Brewers of Europe**

In 2003, The Brewers of Europe had proposed that the European brewing industry would benefit from closer working between themselves and EBC, in order to streamline activity, avoid duplication and save money. See the EBC Report on Activities 2002-2003.

#### *EBC Supervisory Board*

Since both organisations are primarily financed through the (majority of the) same national brewers associations, it seemed logical to ultimately come to a common budget. It had been agreed that The Brewers of Europe will approve the EBC budget and the final EBC accounts. EBC will be adequately represented in the budgetary decision making process and will remain responsible for drafting and managing its own budget.

To implement this and as an intermediate solution, a 'Supervisory Board' had been created within the EBC structure in 2004. This Board, in which The Brewers of Europe have a dominant role, will supervise the financial management of EBC by approving the budget and the annual accounts of EBC before their submission to and vote by the EBC Council. This Supervisory Board will not be expected to contribute to other management duties of EBC. To be able to create this Supervisory Board, the EBC Articles of Association were amended following the Council's decision on 7 May 2004.

#### *Final Management Structure*

During the period described in the present report, a range of options for full and partial merger between the two organisations had been considered, with EBC being based in The

Brewers of Europe House in Brussels (Belgium) as the main 'given'.

Following extensive consultation with legal and financial experts, a proposal was formulated where EBC becomes an autonomous Division of The Brewers of Europe, residing in Brussels, managed by its own Executive Committee, reporting into the new Board of The Brewers of Europe. The Brewers of Europe Board will be accountable only for approving the strategic direction and annual budget of EBC as submitted to it by the Executive Committee of EBC.

Transfer of activities will be gradual and will start in 2006; all should be completed in the course of 2008.

#### EBC Research Fund

On the initiative of The Brewers of Europe, the EBC Council agreed to use its financial reserves for the benefit of the European brewing industry by supporting and funding research projects in the area of food safety. An 'EBC Research Fund' was created, and the annual support to this fund was fixed at €100.000 during in principle five years. In collaboration with The Brewers of Europe a five-year research programme had been defined to investigate critical issues in the industry.

The EBC Research Fund will in first instance be used to co-finance projects carried out under the auspices of the joint EBC/The Brewers of Europe 'Beer Safety Working Group' (the former Contaminants Working Group). Three projects had been selected:

- Analysis of Ochratoxin A (OTA) in beer
- Analysis of T-2 and HT-2 toxins in beer
- Research on the extent to which T-2 and HT-2 toxins can be transmitted through beer from raw materials (malted barley, maize and wheat)

Invitations for tender had been sent to selected centres of excellence in autumn 2005.

#### EBC Database of Experts

On the request of The Brewers of Europe, the EBC Database of Experts (which had become operational in the course of 2001) had been consulted to comment on draft discussion documents on Biowastes and Sludges (2004) and on Reduction of Air Pollution (2005).

# 5 CONGRESSES

## 5.1 30<sup>TH</sup> CONGRESS, PRAGUE, CZECH REPUBLIC, 2005

The 30<sup>th</sup> EBC Congress was held in Prague, Czech Republic, 14-19 May 2005; it was hosted by the Czech Member Organisation of EBC, the Czech Beer and Malt Association (Cesky Svaz Pivovaru a Sladoven).

Due to an interesting and coherent scientific programme, participation in this congress remained at the level of the previous one.

### Opening Address

The President of the Senate of the Czech Republic, Mr. Premysl Sobotka, MD, presented the Lecture of Honour.

### Lecture Programme

The lecture programme comprised of 12 invited lectures and 54 lectures selected out of proposals received as a reaction to the 'Call for Papers'. Concurrent sessions were arranged as from the Monday afternoon through to the end of the congress. Apart from the special sessions mentioned hereafter, topics concerned:

- Product Wholesomeness (4 papers)
- Environment & By-Products (1 paper)
- Energy & Water Efficiency (7 papers)
- Process Development (8 papers)
- Product Development (8 papers)
- Beer Stability (11 papers)
- Molecular Tools in Malting & Brewing (11 papers)

### Special Interest Session: 'Consumer Confidence in Beer and the Brewing Chain'

The congress started off with a special interest session entitled '*Consumer Confidence in Beer and the Brewing Chain*'. Dr. Wendell G. Iverson, who acted as moderator, introduced the purpose of this special interest session:

The final stop in the long brewing supply chain are the consumers. They drink our beers, they pay for our beers and they generally consume our beers in a sensible manner. And, they expect our beers to be safe to drink and they expect that the brewing industry, including the entire supply chain, is run in a responsible manner that polices itself and respects people, society and the environment.

During the last decade, consumer expectations have increased. Consumers are better informed, better educated and have access to much more information. The brewing industry has responded to these increased expectations. Many brewers publish citizenship

reports and environmental reports, product safety issues have high priority, supply chain tracking and tracing is being implemented and sophisticated analyses of potential contaminants are being developed and carried out. EBC continues to provide world-class technical expertise to address these issues.

But has enough been done? Can and should more be done to increase consumer confidence in our beers and in our industry? How do consumers see beer and the brewing industry today? How will they see beer and the brewing industry in 10 years from now? Are the consumers confident in our products and our industry?

Four speakers had been invited to address some of the key issues relating to these critical questions:

- Mr. Han van der Veen (Bavaria, The Netherlands; Chairman of the Market & Technology Committee of The Brewers of Europe) gave the opening talk entitled 'Consumer confidence: framing the key issues';
- Dr. Ina Verstl (Brauwelt, Germany) gave the delegates insight into consumers, their concerns and expectations, and how these may change in the coming 10 years;
- Dr. Bernhard Eckel (Dr. Eckel GmbH, Germany) explained what has happened to the animal feed industry, which has a supply chain quite close to our supply chain, where consumer confidence has been significantly reduced;
- Mr. Jo Williamson (The Wine & Spirit Education Trust, UK) used the wine industry as an example of an industry where consumer confidence has steadily increased over the last decade.

The session was concluded by a panel discussion between the presenters and the audience, chaired by Mr. Esko Pajunen (Sinebrychoff, Finland).

### Debate Lecture Sessions

Participants in previous congresses had asked for more discussion and debate. In response to this, the scientific programme committee arranged two debate sessions:

- *Is DE-free beer filtration a reality?*  
Dr. Horst-Gevert Bellmer (retired from InBev Germany and former EBC Vice President), moderated this debate session during which 6 papers were presented.
- *Is beer flavour stability controllable through malting and mashing?*  
This debate session with 6 presentations was chaired by Mr. Rob van den Berg (Heineken Technical Services, The Netherlands).

The interaction between presenters and delegates had been outstanding, thanks to the genuine involvement of the presenters and also due to the excellent skills of both moderators.

### Poster Programme

In total 106 posters were on display, covering the following topics:

- Agriculture (2 posters)
- Raw Materials (12 posters)
- Foam (4 posters)
- Nutritional Aspects (5 posters)
- Product Integrity (11 posters)
- Analysis (12 posters)

- Microbiology (8 posters)
- PCR techniques (5 posters)
- Yeast & Fermentation (13 posters)
- Filtration (5 posters)
- Technology & Processing (11 posters)
- Packaging (2 posters)
- Flavour Stability (16 posters)

As additional new feature, three ‘critical debate posters’ were introduced; these dealt with:

- Mycotoxins
- Microbiological methods in brewing: past, present and future
- Enhanced Flavour Stability

The topics had been selected based on ‘the uncertainty of the way ahead’. Purpose was to compare and contrast the competing approaches in a way that created debate and discussion amongst congress delegates.

### **EBC and International Activity Posters**

Also this time so-called ‘EBC and International Activity Posters’ were on display, posters of a more general nature, providing information on:

- EBC’s objectives and organisation
- EBC Committees & Group activities
- The Brewers of Europe
- Beer & Health – Glycaemic Index (GI) of Beer
- Beer & Safety – How do food safety issues arise?
- Activities of EBC-BoE Contaminants Working Group
- Generic guide on HACCP principles
- International Brewing Associations (e.g. ASBC, MBAA, IBD, BCOJ and BA)

### **Exhibition**

Following the success of the first exhibition organised during the 2003 Dublin Congress, EBC again organised a tabletop exhibition in which suppliers to the brewing industry, scientific research institutes and brewing schools offered their services to the industry. Aim was to provide additional opportunities for networking, allowing and encouraging delegates to mingle and liaise with suppliers and associates.

The exhibit space was in the form of standardized shell scheme stands, equal in size for all exhibitors. Total number of exhibitors was 60: 49 supplying companies, 8 research institutes/brewing schools, 3 complimentary stands (EBC, BoE & Fachverlag Hans Carl). Judging from publications in the press and also from response by delegates and exhibitors, one could state that the exhibition had been a successful event and a ‘one-stop-show’ to view all new developments and possibilities currently available.

### **Participation**

In total 973 persons participated in the Congress (858 delegates and 115 partners), coming from 49 countries. 50 Day-tickets were sold. 26 Brewing students had been invited to attend the congress; they came from Belgium, Czech Republic, Germany, Great Britain and Ireland.

## Proceedings

The Congress Proceedings are published on CD-ROM. It not only contains the 173 scientific contributions, but it is also a directory to leading expert scientists in the various areas of brewing and malting with the following information:

- descriptor index
- author index
- curricula vitae and photographs of authors
- information on EBC in general
- information on the EBC Committees & Groups
- international activity posters:
  - Beer & Health – Glycaemic Index (GI) of Beer
  - Beer & Safety – How do food safety issues arise?
  - Activities of EBC-BoE Contaminants Working Group
  - Generic guide on HACCP principles
- list of participants in the congress, with full address information
- list of exhibitors
- list of EBC publications
- list of EBC Member Organisations

## 5.2 31<sup>ST</sup> CONGRESS, ITALY, 2007

The 31<sup>st</sup> Congress will be held in Venice, Italy, 6-10 May 2007.

## 5.3 32<sup>ND</sup> CONGRESS, GERMANY, 2009

The German Brewers Association invited EBC to hold the 32<sup>nd</sup> Congress in Germany in 2009.

## 5.4 CONGRESSES IN GENERAL

### Time interval

Intensive discussions took place on the time interval between the congresses, initiated on the suggestion of The Brewers of Europe. Consensus was reached that the current time lapse of two years should be maintained, supported by the following arguments:

- the congress is the most important EBC activity
- the EBC Congress is the most 'worldwide recognized' meeting in the industry
- the quality of presentations offered is of such high level that it justifies holding the congress every two years
- the EBC congresses are the only real occasion for contacts between the industry and scientists from universities and research institutes
- the speed with which (new) technologies develop and the subsequent pressure necessitate to hold the congresses every two years
- EBC's task is to produce the highest level of quality to its members; individual companies decide if it is worthwhile sending delegates to the congresses. The two years' time lapse is the best interval to guarantee the highest quality to brewers and other delegates

### Origin of delegates at recent Congresses

	<i>Budapest 2001</i> in %	<i>Dublin 2003</i> in %	<i>Prague 2005</i> in %
brewers	49	44	36
maltsters	11	8	6
universities/ research institutes	16	15	20
suppliers	17	22	31
other disciplines	7	10	7

**ANALYSIS COMMITTEE****Objectives**

- to standardise analytical methods
- to review and select methods
- to identify absences and/or deficiencies amongst present methods
- to collate and publish methods in Analytica-EBC
- to promote international acceptance of standard methods through cooperation with international organisations
- to collaborate with other groups within EBC
- to provide analytical expertise on behalf of the European brewing industry
- to provide standard materials

**Deliverables**

- standardised methods
- standard materials
- validation processes
- Analytica-EBC
- Analytica-Microbiologica-EBC

**Organisation**

Main Committee	Decides which methods should be tested and included into Analytica-EBC. The different issues are, however, prepared in the subcommittees. Main task is to keep Analytica-EBC updated.
Section Subcommittees	Permanent subcommittees, covering most sections in Analytica-EBC. They review and update the content of the different sections, review developments regarding new methodologies in the literature and the needs for the industry, propose suggestions for collaborative tests, and propose revisions to or archiving of existing methods.
Trial Subcommittees	Formed for the testing of a specific method. Organise and evaluate the collaborative trials.

Microbiology Subcommittee	Formed to review, select, test and standardise the best and most practicable methods of microbiological work in the brewing industry, covering all aspects of production from raw material to packaging. Due to the nature of microbiological analysis methodology, the methods are published as recommended instead of reference methods. Co-opted membership beyond the Main Committee.
Sensory Subgroup	A specialist subgroup founded in October 2001, tasked with driving forward sensory methodology and awareness. Objectives include: - continuously monitoring sensory developments - evaluating existing sensory methods and reviewing when needed - developing new methods - establishing links with other sensory groups (e.g. ASBC, BCOJ) Co-opted membership beyond the Main Committee.

#### Composition of the Committee

Chairman	<i>from May 1999:</i> Dr. Claes-Göran Johansson (Baltic Beverages Holding, Sweden); in May 2003 Dr. Johansson was re-elected Chairman for a second period of four years.
Vice Chairman	<i>from May 1999:</i> Mr. Xavier F. Castañé Sitjas (Damm, Spain); in May 2003 Mr. Castañé Sitjas was re-elected Vice Chairman for a second period of four years.
Number of Members	26 (in 2004) – 27 (in 2005)
Number of Countries	17 (in 2004) – 17 (in 2005)

#### Changes in Membership

Mr. Pavle Koprivanac, Croatia	new member for Croatia	(2004)
Mr. Kreso Maric, Croatia	new member for Croatia	(2004)
Mr. Marc Schmitt, France	succeeding Dr. P. Boivin	(2004)
Dr. Heinz-Michael Anger, Germany	succeeding Dr. W. Hagen	(2005)
Dr.-Ing. Friedrich Jacob, Germany	additional member for Germany	(2005)
Dr. Gerald Zanker, Austria	succeeding Mr. S. Hoffmann	(2005)

#### Meetings held

<i>year</i>	<i>nr.</i>	<i>location &amp; date</i>
2004	99	Ljubljana, Slovenia, 11 May
	100	Lisbon, Portugal, 23 November
2005	101	Prague, Czech Republic, 15 May (during 30 <sup>th</sup> Congress)
	102	Madrid, Spain, 4 November

## New Analytical Methods published in the period 2004-2005

- IOB: Harmonised Method, formerly published as The Institute of Brewing (IOB) Methods of Analysis
- IM: International Method, methods that have internationally been accepted after informed comment and practical collaboration by at least two of the three following organisations: ASBC (American Society of Brewing Chemists), BCOJ (Brewery Convention of Japan) and EBC (European Brewery Convention)

The 4<sup>th</sup> Supplement to Analytica-EBC, published in 2004, contains 20 new methods, 18 former IOB methods and 30 revised/corrected methods. Only the new and former IOB methods are listed hereafter:

nr.	method
3.11.2	Visual Examination of Damaged Barley Kernels
4.6.2	Cold Water Extract of Ale, Lager and Distilling Malts (IOB)
4.11.3	Fermentability, Final Attenuation of Unboiled Worts of Ale, Lager and Distilling Malts: Constant Temperature Mash (IOB)
4.21	Glycosidic Nitrile in Ale, Lager and Distilling Malts (IOB)
5.7	Coloured Malts, Constant Temperature Mash: Extract (IOB)
5.8	Coloured Malts, Constant Temperature Mash: Colour, Visual Method (IOB)
5.9	Dark Malts and Roasted Barley, Constant Temperature Mash: Extract (IOB)
5.10	Dark Malts and Roasted Barley, Constant Temperature Mash: Colour, Visual Method (IOB)
6.12	Iron in Sugars and Syrups (IOB)
6.13	Copper in Sugars and Syrups (IOB)
6.14	Hot Water Extract of Wheat Flours, Barley Flours, Gelatinised Flakes and Torrefied Products, Constant Temperature Mash (IOB)
6.15	Hot Water Extract of Untreated Grain Grits and other Cereal Raw Grain, Constant Temperature Mash (IOB)
6.16	Colour of Wheat Flours, Barley Flours, Gelatinised Flakes and Torrefied Products, Constant Temperature Mash: Visual Method (IOB)
7.9	Iso- $\alpha$ -Acids and reduced iso- $\alpha$ -Acids in Hop Products by HPLC
8.2.2	Specific Gravity of Wort using a Density Meter
8.3	Extract of Wort
8.19	Dissolved Oxygen in Wort using Electrochemical Sensors
9.2.5	Correction of Volatile Acidity (IOB)
9.35	pH of Beer (IOB)
9.41	Alcohol Chill Haze in Beer (Test Chapon)
9.42	Foam Stability of Beer using the NIBEM-T Meter
9.43.1	Specific Gravity of Beer using a Pyknometer (IOB)
9.43.2	Specific Gravity of Beer using a Density Meter (IOB)
9.44	Lead in Beer by Atomic Absorption Spectrophotometry
10.11	Brewery Gases: Effect on Aroma and Taste
11.1.1	Sampling of Bottles
11.6	Qualitative Assay for Invertase
11.7	Empty One-Way Container Clean Efficiency
11.8	Container Washer Detergent Analysis (IOB)
11.9	Detergent Residues in Washed Bottles (IOB)

nr.	method
11.10	Packaging Materials in Contact with Beer: Effect on Aroma and Taste of Beer
11.11	Packaging Materials in Contact with Beer: Metal Pickup in Beer
11.12	Visual Assessment (Defects List) of Glass Bottles
11.13	Physical Dimensions of Bottles (IOB)
11.14	Capacity Determination of Bottles (IOB)
11.15	Internal Pressure Strength of Glass Bottles
13.0	Sensory Health and Safety Guidelines
13.13	Sensory Analysis: Routine Descriptive Test Guideline

The 5<sup>th</sup> Supplement to Analytica-EBC, published in 2005, contains 6 new methods and 7 revised/corrected methods. Only the new methods are listed hereafter:

nr.	method
4.16.3	High Molecular Weight $\beta$ -Glucan Content of Malt Wort: Spectrophotometric Method
4.22	Sieving Test for Malt
7.11	Iso- $\alpha$ , $\alpha$ - and $\beta$ -Acids in Isomerised Hop Pellets by HPLC
9.25.3	Total Sulphur Dioxide in Beer: p-Rosaniline Method (IM)
9.45	Energy Value of Beer by Calculation
11.16	Glass Weight of Bottles

#### Archived Methods (AM)

The following methods have been archived in the course of 2004-2005. This means that these are no longer standardized but can still be obtained from the EBC Secretariat:

nr.	method
<i>EBC methods:</i>	
3.10.1	High Molecular Weight $\beta$ -Glucan Content of Barley: Enzymatic Method
4.16.1	High Molecular Weight $\beta$ -Glucan Content of Malt: Enzymatic Method
9.31.1	High Molecular Weight $\beta$ -Glucan Content of Beer: Enzymatic Method
<i>IOB methods:</i>	
2.19	Estimation of Endo-Beta-Glucanase Activity of Ale, Lager and Distilling Malts
5.4	Sulphated Ash in Sugars and Syrups
5.5	Total Reducing Sugars of Sugars and Syrups
6.4	Lead Conductance Value of Hops and Hop Products
9.20	Vicinal Diketones in Beer: Colorimetric Method
9.33	Dimethyl Sulphide in Beer by Gas Chromatography
9.36	Accelerated Ageing Test (T2- T5) for Beer
9.39	Saturated Ammonium Sulphate Precipitation Limit (SASPL) of Beer
9.41	Head Retention of Beer: Rudin Method
7.1	Dry Weight Content of Foam Stabilisers: Propylene Glycol Alginate
7.2	Haze of Foam Stabilisers: Propylene Glycol Alginate
7.3	Haze Potential of Foam Stabilisers in Beer: Propylene Glycol Alginate
7.4	pH of Foam Stabilisers: Propylene Glycol Alginate
7.5	Solids Content, by Refractometry, of Foam Stabilisers: Propylene Glycol Alginate
7.6	Alginic Content and Degree of Esterification of Foam Stabilisers: Propylene Glycol Alginate

- 7.10 Determination of Optimum Concentration of Copper Finings
- 7.11 Optimisation of the Performance of Isinglass Finings
- 7.12 Free Sulphur Dioxide Content of Isinglass Finings
- 7.13 pH of Isinglass Finings
- 7.14 Total Nitrogen, Total Soluble Nitrogen and Soluble Collagen Nitrogen Content of Isinglass Finings
- 7.31 Wet Sieve Analysis of Filter Aids

### Standard materials

- EBC Standard Malt, developed according to the methods published in Analytica-EBC. It is a control sample for internal laboratory quality control of test methods described in Analytica-EBC, and for calibration of apparatus.
- ICE-2: calibration extract for  $\alpha$ - and  $\beta$ -acids (joint EBC/ASBC action)
- Isomerized hop  $\alpha$ -acid standards (iso- $\alpha$ -acids and reduced (rho) iso- $\alpha$ -acids) (joint EBC/ASBC/BCOJ action)

### Other activities

- Under the auspices of the *Microbiology Subcommittee*, the 2<sup>nd</sup> edition of Analytica-Microbiologica-EBC was published. All methods in this new publication are harmonised with ASBC, IOB and MEBAK. Some specific IOB methods had been rewritten for this new edition. This 2<sup>nd</sup> edition contains 20 new methods, including new methods on molecular techniques in brewing microbiology (PCR methods), methods related to yeast handling and testing, and new methods for detection of contaminants. An annex on Hygiene Legislation and another listing Archived Methods completes the publication.
- The *Sensory Subgroup* is currently building procedures for sensory checks of raw materials and in-process samples and monitoring the performance of panels and individual tasters. Longer term work includes the updating of the sensory section of Analytica-EBC, establishing a training matrix for different levels of tasters and monitoring sensory developments within and outside the brewing industry (e.g. sensory performance monitoring, data capture and evaluation systems, etc.).
- A survey on the *analysis of mycotoxins, pesticides and GMO's* was sent to the international brewing press in June 2004. It includes relevant compounds to be analysed, techniques used for the analysis of these compounds, detection limits which can be achieved with these techniques, levels found and laboratories which are able to perform these analyses. Same information can be found on EBC's website.
- The *International Friabilimeter Calibration Network*, set up in 1998 in collaboration with Pfeuffer GmbH to guarantee the integrity of calibrations, has been working according to schedule; the most recent test was carried out in December 2005. It consists of a network of seven friabilimeters, calibrated against the Chapon Master Friabilimeter; six of the instruments are lodged at brewing industry institutes or companies throughout Europe with the remaining instrument held by Pfeuffer. Detailed information has been published in press releases. Further information can be obtained through the EBC Secretariat.

## 6.2

- A system had been developed for *evaluation of collaborative* trials for the determination of precision figures in accordance with ISO 5725-2: 1994.
- Because an EU Regulation on SO<sub>2</sub> (contents of more than 10 ppb to be labelled) came into force in November 2005, a *rapid method for the determination of SO<sub>2</sub>* was included in Analytica-EBC (nr. 9.25.3): “Total sulphur dioxide in beer: p-Rosaniline method” (this is the unmodified version of the IOB method).
- The extensive exercise on *amalgamating the IOB methods into Analytica-EBC* is nearing completion; only those for packaging (37 methods) and co-products (1 method) still need to be harmonized. It is expected that the harmonisation will be complete by the end of 2006.

The Council supported the view of the Committee to produce the new and harmonised Analytica-EBC as a CD-ROM version exclusively and no longer as hard copy. This will be done once all methods have been amalgamated.

- On the initiative of the spanish organisation IDETRA (Innovación, Desarrollo y Transferencia de Tecnología S.A.), EBC had participated in the expression of interest on the development of technical standards for *gluten measurement* in the scope of the 6<sup>th</sup> Framework programme on Research, Technological Development and Demonstration of the European Commission. Involvement would be through the Analysis Committee, through e.g. a ring analysis to evaluate and validate a possible method. The proposal had regrettably not been considered eligible.

Reference is further made to sixteen *press releases*, mostly reporting on test results, which regularly have been published in the international brewing press. Reports describing the activities of the Committee have been published in the Proceedings of the Congresses. See also paragraph 8: Publications.

## BARLEY & MALT COMMITTEE

### Objectives

- to help ensure an adequate supply of malting barley in Europe
- to conduct annual international barley trials to evaluate the merits of different and novel varieties for brewing purposes
- to establish improved methods for testing malting barley and to formulate requirements for malting barley and malt, in association with the malting and brewing industry *and* the Analysis Committee and Brewing Science Group
- to communicate the results of its activities to all parties in the supply chain such that they are aware of promising new malting barley varieties

### Success Criteria

The Committee is regularly quantifying the relative success of its work via a number of parameters:

- the quality of the selection process of the barley varieties (aiming to ensure that 100% of successful malting barley varieties in participating countries have been trialled by EBC)
- the exchange of barley varieties from one country to another
- the reliability of the analytical data in the annual report
- the quality of communicating the results

## Deliverables

- intensified cooperation of the supply chain breeders-maltsters-brewers
- understanding of applicability of barley varieties
- publication of results
- publication of 'Executive Summary for the Industry' to inform the non-expert readers by highlighting the essential information on the trials and by giving an informed opinion; information on quality of the tested varieties is given by comparing these to the standard varieties. This summary has a wide circulation in the industry.

## Achievements

Barley varieties have travelled through Europe over the past 30 years and have shown continuous improvement:

- the agronomic yield (50% responsibility improved varieties) increased by 50%
- the extract yield has improved by 3%

These improvements, which have brought significant value to the entire beer production chain, could not have been produced in a reliable way without the data published in the annual reports of the Committee.

## Composition of the Committee

The Committee consists of mostly barley breeders, representatives of scientific institutes (some involved in breeding, some with much knowledge of breeding), maltsters and brewers (chairman).

Chairman	<i>until March 2005:</i> Mr. Wendell G. Iverson (Heineken, The Netherlands)
	<i>as from March 2005:</i> Mr. Fernando Vidal (Mahou-San Miguel, Spain), acting as Interim Chairman
Vice Chairmen	<i>since 2002:</i> Dr. Herbert Graf (IREKS, Germany) Dr. Luc Didierjean (Tepal, France)
Number of Members	22
Number of Countries	19

## Changes in Membership

Mr. Vladimir Bicanic, Croatia	new member for Croatia	(2004)
Dr. Frank Rath, Germany	succeeding Prof. Dr. R. Schildbach	(2004)
Mr. Michele Cason, Italy	succeeding Prof. Dr. F. Bonciarelli	(2005)
Mr. Willem J.J.M. van Waesberghe, The Netherlands	succeeding Mr. W.G. Iverson	(2005)

## Meetings held

<i>year</i>	<i>nr.</i>	<i>location &amp; date</i>
2004	109	Amsterdam, The Netherlands, 29 January
	110	Bratislava, Slovakia, 17-18 June
2005	111	Amsterdam, The Netherlands, 31 January
	112	Helsingborg, Sweden, 14 July

### Other activities

- to regularly review the critical success factors of the Committee
- to continue organising an annual ring analysis to ensure that all laboratories and pilot maltings involved do perform in an appropriate way
- to monitor accreditation of the participating laboratories
- to develop a strategy for EBC reference standard varieties and to formulate criteria with minimum requirements, including a basis for changing these standards
- to improve the way of presenting the results of the international trials on a broader scale

## BREWING SCIENCE GROUP

### Objectives

- to promote better understanding and technical advancement of science and innovation in the brewing industry on pre-competitive level
- to provide a forum for discussion of scientific research into brewing, typically in relation to genetics, physiology, (bio-)chemistry, microbiology and physics
- to have clear missions executed in subgroups of limited duration

### Activities & Output

- biennial technical meetings for exchange of research activities held in years alternate to the EBC Congresses
- independent subgroup meetings
- papers presented in these meetings are published in a confidential Bulletin and circulated to members of the Group

Since 1996, the Brewing Science Group held 5 Technical Meetings during which about 120 scientific papers have been presented and discussed. Many of these have afterwards been presented at the EBC Congresses where scientists present their work in a more general way and get useful feedback directly from the industry or users of their results.

### Deliverables

- scientific networking
- insight in latest progress in brewing science
- Bulletin of papers presented at meetings
- members involved in the organisation of EBC Symposia on specific themes

### Composition of the Committee

Chairman	<i>from May 2004:</i> Dr. Erna Storgårds (VTT, Finland)
Vice Chairman	<i>from May 2005:</i> Prof. Dr. Frank-Jürgen Methner (TU Berlin, Germany)
Number of Members	56 (44% from the industry, 56% from universities and research institutes)
Number of Countries	19, incl. non-EBC countries Canada, New Zealand and USA

## Changes in Membership

Mrs. Ingrid Bohak, Germany	new member for Germany	(2004)
Mr. Luis Guido, Portugal	new member for Portugal	(2004)
Dr. Ir. Martijn van Iersel, The Netherlands	new member for The Netherlands	(2004)
Dr. Martin Krottenthaler, Germany	new member for Germany	(2004)
Mr. Jean-Yves Malpote, France	succeeding Mr. P. Brignon	(2004)
Mr. Peter Paulik, Croatia	new member for Croatia	(2004)
Dr. Tadgh O'Sullivan, The Netherlands	new member for The Netherlands	(2004)
Mr. Vlado Sobota, Croatia	new member for Croatia	(2004)
Dr. Jaromir Fiala, Czech Republic	succeeding Dr. J. Cepicka	(2005)
Dr. Johannes Hinrichs, Germany	new member for Germany	(2005)
Prof. Dr. Frank-Jürgen Methner, Germany	succeeding Prof. K. Wackerbauer	(2005)
Dr. Ludwig Niessen, Germany	succeeding Dr. K.-J. Hutter	(2005)
Dr. Christoph Tenge, Germany	new member for Germany	(2005)
Dr. Annika Wilhelmson, Finland	succeeding Dr. A. Haikara	(2005)

## Meetings held

<i>year</i>	<i>location &amp; date</i>
2004	Lahti, Finland, 25-28 May (5 <sup>th</sup> Technical Meeting)
2005	Prague, Czech Republic, 17 May (Business Meeting during 30 <sup>th</sup> Congress)

## Subgroups (situation in 2005)

- Foam Chairman: Dr. Peter Wilde (UK)
- Emerging Yeast Systems Chairman: Dr. Dr. Frank Nitzsche (D)
- Microbial Contaminants Chairman: Dr. Tadgh O'Sullivan (NL)
- Malting Barley Genetics & Physiology Chairman: Dr. James H. Bryce (UK)
- Flavour and Flavour Stability Chairman: Dr. Patrick Boivin (F)
- Beer Safety Chairman: Dr. Stéphane Dupire (B)  
(a joint subgroup with The Brewers of Europe)
- Hygiene Chairman: Dr. Frank-Jürgen Methner (D)

The 5<sup>th</sup> Technical Meeting was held in Lahti, Finland, 25-28 May 2004. This meeting was hosted by Hartwall Breweries and co-sponsored by Sinebrychoff Breweries, Viking Malt and Oy Panimolaboratorio. It was attended by 48 delegates from 11 countries; 20 lectures were presented.

## Other activities

- The *Subgroup Microbial Contaminants* met in Lahti on 28 May 2004 (in conjunction with the 5<sup>th</sup> Technical Meeting). During that meeting 12 lectures were presented dealing with PCR and FISH methods in brewery quality control, flow cytometry, microsieves and other filtration methods and detection of mycotoxigenic fungi in malted barley.

Several members of the Subgroup had participated in the 5<sup>th</sup> Framework Programme of the European Community combined R&D and Demonstration project: "Development and Demonstration of Polymerase Chain Reaction based Methods for Process Control in the Brewing Industry (BREWPROC)". Project results were presented at a final symposium at the subgroup meeting in Lahti.

- The *Subgroup Flavour & Flavour Stability* held a meeting in Nancy on 24-25 October 2005, during which 11 papers were presented. The meeting was attended by 22 persons. Proposals for future activities had been discussed, aiming to gain better knowledge of raw material, process and storage on organoleptic stability of beer; research needs had been identified.
- The *Subgroup Malting Barley Genetics & Physiology* met in Edinburgh on 3-4 November 2005.
- The Chemical Contaminants Subgroup had merged with the Contaminant Group of The Brewers of Europe into the 'EBC-The Brewers of Europe Contaminant Group', by the end of 2005 renamed into '*Beer Safety Working Group*'. The objectives are to review and foresee the possible contaminants in the barley-malt-beer chain with emphasis on the prevention and curative methods as well as possible future legislation. The objectives are to ensure that The Brewers of Europe are alerted to emerging issues which might impact on the real or perceived safety of brewing raw materials, beer, packaging or co-products in order that they can respond in a timely and authoritative manner to minimize the potential damage to brewing companies. The EBC Research Fund, established in 2005, co-finances survey and research projects to support the activities of the Beer Safety Working Group. See paragraph 4.4.

#### **EU R&D and Demonstration Project (BREWPROC)**

Under the 5<sup>th</sup> Framework of the European Community, a combined R&D and Demonstration project related to the activities carried out in the Subgroup 'Microbial Contaminants' was started in January 2001. The name of the project is *Development and Demonstration of Polymerase Chain Reaction based Methods for Process Control in the Brewing Industry ('BREWPROC')*, and the objective is to improve the microbiological quality and safety of European beer through implementation of PCR technology in brewery QC. Five Subgroup members are involved (amongst others) and meetings of both the Subgroup and the Brewing Science Group – and also the EBC Congress held in Dublin – have been used as platforms for dissemination of the project results. The final results were presented at a Symposium held in Lahti (Finland) organised in conjunction with the 5<sup>th</sup> Technical Meeting and the meeting of the Subgroup Microbial Contaminants.

## **6.4 TECHNOLOGY & ENGINEERING FORUM**

In the 114<sup>th</sup> EBC Council Meeting held on 13 October 2004, it was decided to dissolve the EBC Technology & Engineering Forum once all Manuals of Good Practice have been published.

Within the Market & Technology Committee of The Brewers of Europe 'issue managers' were nominated to further aid the already existing (joint) Working Groups with a set-up almost similar to that of a 're-structured' EBC Technology & Engineering Forum. That being the case, there is no longer much value added for EBC to re-activate the work of the Forum. EBC's contribution to the Market & Technology Committee should focus on identifying issue managers through its database of experts.

Meetings of the Technology & Engineering Forum as such have not been held since 2001. Instead, a Steering Committee consisting of EBC and BRI representatives supervised production of the Manuals of Good Practice.

## Manuals of Good Practice

The project to produce the Manuals of Good Practice has been supported by the European Union under the AIR Programme to promote research and development in the food industries.

The following EBC Manuals of Good Practice have been published:

- Beer Pasteurisation (May 1995)
- Brewery Utilities (May 1997)
- Hop & Hop Products (September 1997)
- Milling (May 1999)
- Beer Filtration, Stabilisation and Sterilisation (May 1999)
- Malting Technology (June 2000)
- Fermentation and Maturation (September 2000)
- Water in Brewing (May 2001)
- Wort Boiling and Clarification (2002)
- Utility Distribution Systems (2003)
- Brewery Effluent (2003)
- Quality (2005)

Title in preparation:

- Mashing Technology and Separation (a combined publication of 'Mashing Technology' and 'Mash Separation')

Topics published as "Report to the EU Commission" are:

- Research & Development Needs for the Brewing Industry
- Computer Aided Techniques

Although the draft manuscript of the still unpublished Manual is available, progress with publication was slowed down due to problems in the area of technical and language editing.

EBC is much indebted to the tremendous support given to this project by Brewing Research International, in particular Dr. John R.M. Hammond.

# 7 SYMPOSIA

An EBC Symposium is a two-days meeting where up-to-date knowledge of a well-defined subject of scientific or technological nature is discussed by specialists. Three types of Symposia exist:

- with limited number of invited participants (approx. 50)
- open structure with extended participation (50-100)
- ad-hoc Symposia when immediate action is required to respond to requests from organisations such as The Brewers of Europe, or new member countries, etc.

The EBC Council determines the topic of the Symposium and invites a general chairman. All presentations are published as EBC Monograph. In principle 1-2 Symposia are held annually.

## 7.1 FOOD SAFETY AND TRACEABILITY, 2004

This Symposium was held in Berlin, Germany, 2-4 May 2004, under general chairmanship of Dr. Frank Rath (VLB – Versuchs- und Lehranstalt für Brauerei in Berlin). The Symposium was attended by 83 persons from 18 countries, incl. Poland and the US as non-EBC member countries; 20 scientific papers were presented in 4 sessions:

- I Legal general conditions and requirements of the market
- II Food safety and traceability – upstream
- III Food safety and traceability – downstream
- IV Crisis management

The opening lecture was presented by Mrs. Alexandra Nikolakopoulou, Administrator of the European Commission, Unit Food Law and Biotechnology and dealt with ‘New European regulations – upstream and downstream (General Food Law 178/2002)’. In his summary, Dr. Rath explained why this Symposium was organised. The EC Regulation 178/2002 (which largely came into force on 1 January 2005) makes it essential that the industry concerns itself more intensely with questions of food safety and traceability and that sound concepts for the future are developed.

This basic regulation is directly valid in every Member State and is leading to an extensive harmonisation of the food and animal food safety laws within the Community. The regulation, for the first time, sets binding minimum requirements for food safety and traceability for all Member States of the EU.

It is up to the industry to decide how to fill out this framework with concrete measures. Minimum aims can be formulated which, on paper, would satisfy the demands of the laws and regulations, or the opportunity can be seized to develop a trend-setting concept, which will actually improve food safety and consumer protection, and apply it in practice. Just as international as the audience were the scientists and experts who were willing to present a paper at the Symposium. When deciding on the topics, it was tried to cover the whole supply chain from the raw materials through to the consumer, so that each participant would be able to take home new inspirations for his own work.

Interesting papers on the topic of ‘Traceability’ have shown that, especially in the downstream area of a company, a variety of high-tech solutions are available for selection which are able to ensure that a secure traceability is maintained throughout the supply

chain from brewery to consumer. A harmonisation with respect to international standards is already well advanced in this area.

However, in contrast, the traceability of the raw materials, barley and malt, seems to be not satisfactorily solved yet. The possible solutions presented for the upstream area have not yet been applied and must still gain acceptance in practice.

Papers on the topic of 'Food Safety' dealt with the minimum requirements for the EU basic regulations and the special demands of the markets. Experts from various European countries presented different 'Food Safety' concepts which later led to a controversial podium discussion. The intensive exchange of ideas on this topic and the search for a common basis should be continued, under the auspices of EBC and in collaboration with The Brewers of Europe and Euromalt, at another time and place.

The papers presented at this Symposium have been published as EBC Monograph 33.

# 8 PUBLICATIONS

In the period 2004-2005 the following publications were issued:

- Monograph 32 (Symposium Sanitary Engineering & HACCP) (on CD-ROM)
- Monograph 33 (Symposium Food Safety and Traceability) (on CD-ROM)
- Manual of Good Practice:
  - Quality
- Fourth Supplement to Analytica-EBC (2004 update)
- Fifth Supplement to Analytica-EBC (2005 update)
- 2<sup>nd</sup> edition Analytica-Microbiologica-EBC (on CD-ROM)
- Proceedings 30<sup>th</sup> EBC Congress, Prague 2005 (on CD-ROM)

In addition, numerous press releases have been published in the international brewing press.

EBC publications can be ordered from:

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# 9 FINANCE & STAFF

## 9.1 FINANCIAL STATEMENT FOR THE YEAR 2005

The financial statements have officially been audited by KPMG Accountants. The Auditor's Reports have been sent to EBC Member Organisations after approval by the EBC Supervisory Board and the EBC Council.

The following tables summarise the financial status of EBC at 31 December 2005. The figures have been taken from the audited accounts.

REPORT ON ACTIVITIES  
2004 - 2005

### Income and Expenditure for the year 2005, in € 1.000

	2005	2004
<b>Income</b>		
Subscriptions	296.3	292.8
Interests	37.8	30.1
Proceeds publications	9.6	2.9
	<b>343.7</b>	<b>325.8</b>
<b>Expenditure</b>		
Secretariat Salaries	238.7	243.8
Administration	139.1	126.0
Committees & Groups	19.0	16.9
Symposia	0	(11.7)
<i>subtotal</i>	396.8	375.0
<b>Higher/Lower market value bonds</b>	1.8	0
	<b>398.6</b>	<b>375.0</b>
<b>Results</b>	<b>(54.9)</b>	<b>(49.2)</b>

### Balance Sheet at 31 December 2005, in € 1.000

	2005	2004
Securities	678.3	725.5
Cash and banks	197.3	64.0
	<b>875.6</b>	<b>789.5</b>
Other current assets	145.3	66.4
Congress Fund	(100.4)	(98.9)
Current liabilities	(40.3)	(51.6)
	<b>4.6</b>	<b>(84.1)</b>
<b>Members' Equity</b>	<b>880.2</b>	<b>705.4</b>

**STAFF EBC SECRETARIAT**

Marjolein van Wijngaarden

Secretary General (full time)

Hennie Schippers

Secretary (full time)

Lida Walter

Administration &amp; Accounts (part time)

# COOPERATION WITH OTHER ORGANISATIONS

## 10.1

### THE BREWERS OF EUROPE

The Brewers of Europe, founded in 1958 and based in Brussels, is the voice of the European brewing sector to the European institutions and international organisations. Current members are the national brewers' associations from 19 EU member States, plus Norway, Switzerland and Turkey. The Brewers of Europe encourages an open dialogue between its members in relation to all issues falling in the remit of the association. By promoting the interests and advising the EU institutions on all aspects of policy and legislation affecting the brewing sector, The Brewers of Europe is thus able to inform the institutions of its special needs and to ensure that legislative initiatives take their requirements into consideration.

#### Future cooperation

See paragraph 4.4 for details regarding discussions concerning future cooperation between EBC and The Brewers of Europe.

#### Current cooperation

##### *Technical Adviser*

Mr. Esko Pajunen, EBC Vice President and immediate Past President, is Advisor Technical Matters for The Brewers of Europe since 1999. In this position he is able to ensure optimal opportunities for exchange of information. Together with the Secretary he participates in the meetings of the Market & Technology Committee of The Brewers of Europe.

##### *Membership Market & Technology Committee*

Several EBC Council Members are also member of the Market & Technology Committee of The Brewers of Europe.

##### *HACCP Guidance*

In November 2004 the HACCP Guidance 'Managing Food Safety in the European Brewing Industry through the Application of HACCP Principles' was published. This generic voluntary European HACCP Guide was drawn up by a joint EBC and The Brewers of Europe HACCP Working Group under chairmanship of Dr. David E. Long (British Beer & Pub Association).

EBC and BoE members had been informed that the Guidance was published on the websites of both EBC ('password protected') and The Brewers of Europe ('members only section').

The HACCP document should be regarded as a guide; it is not a definitive list of all

possible hazards. It should be read with, and is not a substitute for, the relevant legislation. It includes interpretations of legislation that are an opinion and are only a summary of the wording prescribed. The guidelines are a 'living' document and updates will be published as necessary.

#### *Beer Safety Working Group*

What started as a project group 'Mycotoxins' became a joint EBC/The Brewers of Europe 'Contaminants Working Group' in 2004 to better represent the broad scope of issues covered; it was renamed 'Beer Safety Working Group' by the end of 2005. Chairman is Dr. Stéphane Dupire (InBev).

Data collected on OTA content in beer helped the EU Commission and Member State representatives in their decision not to establish a beer specific OTA as originally proposed. However, limits will be reviewed in line with the review clause written in the legislation; this would also take into account the data available in the new Member States. A detailed workplan had been defined, details of which as well as the financial sponsoring are described in paragraph 4.4 under 'EBC Research Fund'.

#### *Summary*

Further areas of cooperation in the period 2004-2005 can be summarized as follows:

- Prague Congress, May 2005:
  - joint stand for EBC and The Brewers of Europe at the exhibition
  - international activity posters:
    - activities of the joint Contaminants Group
    - HACCP Guidance Note – an update
- Database of experts
- Initiative to organise EBC Symposia on:
  - Food Safety & Traceability (2004)
  - Environmental Issues, IPPC & BAT (to be decided)

## 10.2

### **EUROMALT**

EUROMALT is the Working Committee of the European malting industry. It represents and promotes the interests of the EU malting industry at EU and international levels on issues that affect the ability of maltsters to source their raw materials or to manufacture, distribute and market their products.

Euromalt was represented at the EBC Congress in Prague through delegates attending. A presentation on the activities of the EBC Barley & Malt Committee was presented at the Euromalt Malting Barley Seminar on 5 October 2005.

## 10.3

### **BCOJ (BREWERY CONVENTION OF JAPAN)**

Following the signing of the 'Declaration of Partnership between EBC and BCOJ' in 2001 to promote further mutual participation, regular contacts between the two organisations took place. Representatives of BCOJ attended meetings of the EBC Analysis Committee. Main issue is to collaborate in the evaluation and standardisation of analytical methods and to progress the development and recognition of the 'International Methods'.

## ASBC (AMERICAN SOCIETY OF BREWING CHEMISTS)

Through the Analysis Committee, there is a steady contact with ASBC, in particular concerning the promotion of international acceptance of standard analytical methods. There are currently 43 International Methods; these methods are accepted by both EBC and ASBC (and some also by BCOJ). Representatives of EBC and ASBC attend each other's congresses and meetings.

## MBAA (MASTER BREWERS ASSOCIATION OF THE AMERICAS)

Cooperation mainly focussed on the exchange of posters, as follows:

2005 MBAA Convention Miami                      5 EBC posters from Prague Congress:  
nrs. 5, 78, 96, 100 and 101

See also paragraph 10.7 'World Brewing Congress 2004'.

## EHRC (EUROPEAN HOP RESEARCH COUNCIL - IN FORMATION)

In 2000, EBC initiated the arrangement of a formative meeting of a European Hop Research Council (EHRC).

The reason for the proposal to establish an EHRC is the concern of the future sustainability of the hops industry, the market situation in hops having changed dramatically the last few years. The role of an EHRC would primarily be to coordinate research on hops across Europe and eventually possibly worldwide.

EBC's role in an EHRC, for the benefit of the brewing industry, would mainly be to act as an advisory board and to become, as an umbrella organisation, the vehicle to apply for EU funding. Following the establishment of an EHRC, EBC could play an integral role in the maintenance of the collaborative research activity. This might include setting up meetings and, perhaps in the longer term, work towards collaboration and harmonisation with the HRC in the US.

Due to a number of circumstances, final decisions as to the structure of an EHRC, EBC's possible role therein and membership could not yet be taken. It has been made clear that EBC would not be in the position to act as financial sponsor.

## WORLD BREWING CONGRESS 2004

This congress was organised to bring the world brewing community together to face the future. It was held in San Diego, USA, 25-28 July 2004.

EBC had been invited to actively participate in the set-up of the technical programme of the World Brewing Congress 2004, initiated by MBAA and ASBC. Also BCOJ and IGB had been invited to contribute.

The presentations proposed by EBC had all been included in the programme. Topics covered Raw Materials (PCR & barley variety, single kernel NIR, continuous barley improvements), Microbiology (PCR-based detection, biofilms), Yeast & Fermentation (yeast & stress, propagation) and Environmental and Safety Issues (IPPC & BAT). Some of the papers were updates of the finest from the EBC Congress held in Dublin in 2003. The Chairman of the EBC Barley & Malt Committee had presented an overview of the activities of the Committee in a workshop dedicated to malting barley variety development and evaluation systems.

# HONORARY EBC MEMBERS

Prof. Dr. Ludwig Narziss (1993)

Mr. Paul van Erde (1999)

Prof. Dr. Tor-Magnus Enari (2000, post mortem)

# DECEASED

Mr. Jan GOMBERT (The Netherlands) on 4 May 2004 at the age of 90  
(Council Member for The Netherlands 1963-1981; Vice President of EBC 1973-1979)

Dr. Karl-Josef HUTTER (Germany) on 18 September 2004 at the age of 61  
(Brewing Science Group since 2001)

Prof. Dr. Heinrich WEYH (Germany) on 24 September 2004 at the age of 74  
(German representative in the Analysis Committee 1974-1982)

Mr. Américo ANTUNES MARTINS (Portugal) on 18 November 2004 at the age of 78  
(Council Member for Portugal 1974-1998; Vice President of EBC 1979-1990)

Mr. Donald EYBEN (Belgium) on 24 October 2005 at the age of 73  
(Council Member for Belgium 1985-1996; Analysis Committee 1966-1986)

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