The EBC Brewing Science Group: Concept of scientific exchange and Report 2014-16

Traffictor

EBC Invited Symposium World Brewing Congress Denver, August 15th, 2016 Carsten Zufall

Historical background

- EBC founded in 1946
- The Barley & Malt Committee founded in 1949, Analysis Committee at congress 1953
- Specialized expert groups started to work from 1957 onwards, e.
 g.:
 - \rightarrow EBC Microbiology Group \rightarrow EBC Biochemistry Group
- Opportunity for improvement in coordination of activities of independent groups and sub-groups
- EBC Brewing Science Group (BSG) called into being (as a successor to the Micro and Biochemistry Group) and had its first business meeting during the EBC congress 1995 in Brussels



Standard concept for congresses

Most technical and scientific congresses have a similar concept:

- Anybody may register and attend
- Anybody may present (provided quality requirements are met)
- The presented work becomes available to the designated public in the form of the Proceedings or copied presentations
- Copyright may be transferred to the congress-organizing entity and, eventually, the public domain

A different concept



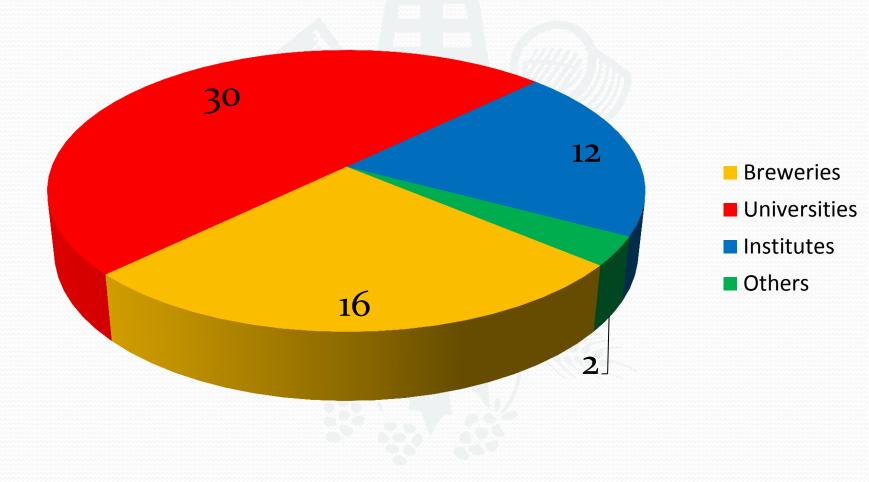
The EBC Brewing Science Group meetings follow other guidelines:

- Most important principle is that presentations given are strictly confidential
- Consequently, attendance is restricted
- Participation is by membership only, similar to a club with a limited number of members
- This corresponds to the fact that globalization has decreased the number of industry research units and increased the requirements for restricting any presented information

Benefits of the BSG concept

- BSG confidentiality enables industry researchers to discuss classified topics and seek expert opinions from fellow researchers both from other companies as well as from other research institutes
- Thus the EBC BSG is an ideal forum for scientific interchange between the brewing sector and universities and other research institutions, to the benefit of all parties
- The group serves as a potential "technology resource" to The Brewers of Europe and a think-tank for the Issue Management Teams established to address emerging topics relevant to the brewing sector

BSG membership structure



European Brewery Convention – Brewing Science Group



BSG meetings so far (1)

Year	Туре	Venue	Country	Host
1995	Congress Meeting	Brussels	BE	EBC Congress
1996	Technical Meeting #1	Berlin	DE	VLB Berlin
1997	Congress Meeting	Maastricht	NL	EBC Congress
1998	Technical Meeting #2	Edinburgh	UK	ICBD / Heriot-Watt University
1999	Congress Meeting	Cannes	FR	EBC Congress
2000	Technical Meeting #3	Pilsen	CZ	Czech Institute for Beer & Malt
2001	Congress Meeting	Budapest	HU	EBC Congress
2002	Technical Meeting #4	Oporto	PT	Univ. of Oporto / APCV
2003	Congress Meeting	Dublin	IE	EBC Congress
2004	Technical Meeting #5	Lahti	FI	VTT
2005	Congress Meeting	Prague	CZ	EBC Congress



BSG meetings so far (2)

Year	Туре	Venue	Country	Host
2006	Technical Meeting #6	Perugia	IT	CERB / Perugia University
2007	Congress Meeting	Venice	IT	EBC Congress
2008	Technical Meeting #7	Nottingham	UK	Nottingham Univ. Brewing Science
2009	Congress Meeting	Hamburg	DE	EBC Congress
2010	Technical Meeting #8	Wolnzach	DE	Hop Growers / TU Munich WZW
2011	Congress Meeting	Glasgow	UK	EBC Congress
2012	Technical Meeting #9	Copenhagen	DK	Scandinavian School of Brewing / Carlsberg
2013	Congress Meeting	Luxemburg	LU	EBC Congress
2014	Technical Meeting #10	Vienna	AT	Austrian Brewers' Federation
2015	Congress Meeting	Oporto	PT	EBC Congress
2016	Technical Meeting #11	Wroclaw	PL	Polish Brewers' Association



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EBC Symposium 2014 in Vienna

- First EBC symposium on beer mix beverages
 - Attracted over 120 participants from breweries, soft drinks companies, juice and aroma suppliers as well as equipment manufacturers
- Selected topics
 - Market trends and consumer preference
 - Biological risks of beer mix beverages, especially in packaging
 - Non-biological stability of beer mix beverages
 - Flavour stability of beer mix beverages
 - Ingredients solubility issues
 - Analytical control of beer mix beverages and their stability
 - Beer mix beverages taster training
 - Inline process technology

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EBC BSG Meeting 2014 in Vienna

- 17 scientific presentations from industry and academy
 - Topics ranging from raw materials (gushing, gluten-free beer) over yeast and yeast breeding to fermentation themes, beer flavour stability and filtration/stabilisation of beer
- Joint effort: Identification of "hot topics" to become relevant for the brewing industry in a year's time (until May 2015)

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- Industry and academy members were separately asked to list and prioritize relevant topics in different workgroups in parallel
- Most named topics were subjected to an additional study in cooperation with Campden BRI
- Nine new BSG members were elected (5 from universities, _______
 3 from institutes and 1 from the brewing industry)
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EBC Congress 2015 in Oporto

- Keynote presentation by BSG members on "hot topics" and trends the industry is facing
 - The topics had been predicted a year ago at the Vienna BSG meeting
 - A thorough evaluation showed that over 90% of predictions were accurate, a clear evidence of the value of the Brewing Science Group expertise
- BSG meetings and symposiums
 - The highly successful combination of EBC symposia "back to back" with EBC BSG meetings has been confirmed for 2016
- BSG administration
 - BSG chairperson re-elected

35TH CONGRESS



EBC Brewing Science Group: Challenges

- Less research in the industry sector
 - Many of the large brewing groups have reduced their own research as well as their research funding
 - In a global scenario, publishing research is less attractive for the industry (but may be considered in the confidential BSG environment)
 - Some craft brewers are building own research units, but still too little to fill the gap left by the reduction of activity from the big groups
- Less research funding available for institutes and universities
 - Increasingly difficult to do research as well as attend congresses
 - BSG has very low fees for its meetings, even combined with EBC symposia, and can help find institutional and industry funding



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EBC Brewing Science Group: Outlook

- Making sure that the EBC BSG will continue to attract top brewing experts from Europe and the world
- Maintain and promote BSG confidentiality, which enables researchers to discuss classified topics, making BSG *the* forum for scientific interchange between industry and academy
- Crucial to achieve balance between academy members from universities and institutes and industry members from breweries and maltings
- Next technical meeting: September 20th-22nd in Wroclaw, Poland

European Brewery Convention – Brewing Science Group



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ed Symposium wing Congress Jst 15th, 2016 Carsten Zufall