SATURDAYMORNING SESSION: Sponsored by



What Is In A Glass

Dr Evan Evans

BeerCo Demo to follow with Dermott Dowling



Session Chair: Geoff Strench

Tasting Sponsor:

What is in a glass?





Dr Evan Evans, The Tassie Beer Dr Tasmania, Australia

This is how we drink.....

"a beer drinker drinks as much with

his or her eyes as with their mouth"

Charles Bamforth (1989).

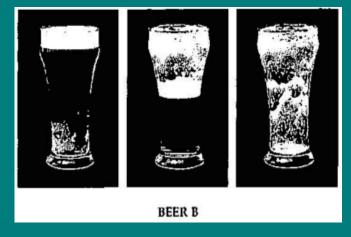
("The Pope of Foam" Ludwig Narziss)



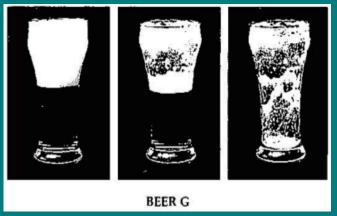
Bamforth, Butcher and Cope (1989). The interrelationships between parameters of beer quality. Ferment **1989**, 2, 54-58.

The gender – regional dynamics of beer foam









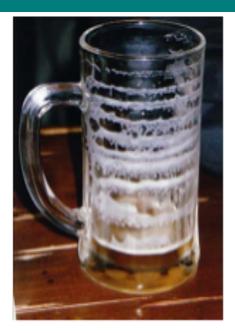
Survey preferences defined by drinkers region and gender

Bamforth, C. W. (2000). "Perceptions of beer foam." J. Inst. Brew. 106: 229-238.

Beer Foam Quality and Perception







	Beer drinker 1 (a Belgian	?):
"Lively beer with good head"	"Flat beer"	"Great lacing, top beer!"
	Beer drinker 2 (a Londone	r?):
"Ripped off, foam is not beer!"	"That is more like it, a full measure of beer"	"A dirty glass"
	Beer drinker 3 (a Lady)	?)
"Will this foam stick to my lip and wreck my make-up?"	"Not very lively and appealing beer"	"This glass has not been properly cleaned before filling"

Ensure clean dispense!

"Cleanliness is next to Godliness!"

- Clean lines and taps.
- Clean glasses "fit to fill" criteria.
 - free rinsing, free of detergents
 - odour free, disinfected
 - cool and dry
- Suit the glass to the type of beer being poured
 - Belgian style?

Presenting your beer

"The growing importance of "brand image requires the choice of a glass characteristic of the product and the brewery. Glass characteristics impacts on beer:

- physio-chemical characteristics
- sensory properties
 - speed of warming up
 - CO₂ loss
 - foam stability
 - colour
 - evolution of main aromatic compounds (aldehydes, sulphur compounds, esters)"

"That foam is perhaps one of the most appealing beer qualities is perhaps not surprising since the foam acts as an efficient gas exchange surface pitching aromas towards the drinkers olfactory sensors."



Prof Freddy Delvaux KU Leuven, Belgium

Delvaux, Deams, Vanmachelen, Neven, and Derdelinckx, (1995). "Retention of beer flavours by the choice of appropriate glass." pp 533-542, EBC 25th Cong. Proc. Brussels.

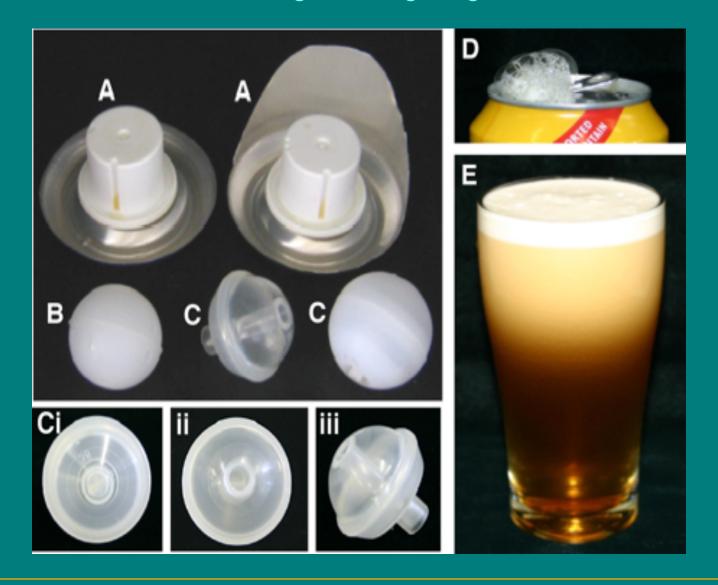
Nitrogen vs CO₂ - foam bubble size!



Nitrogenated

Carbonated

A selection of foam generating widgets and their effect



Standard glasses in Australia

Standard Practice



A Step Forward

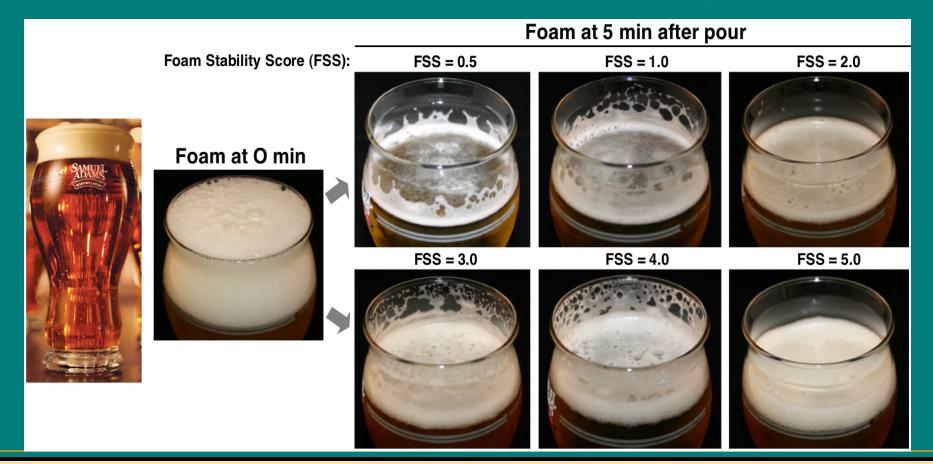


Which would you prefer?



Foam stability, natural pour, all about:

- 1. Total protein in beer
- 2. Level of carbonation
- 3. Level of bitterness (mainly lacing)



Cylindrical 'Pils' style glasses









Bolleke 'full glass' and Chalice-shaped glasses







Thistle and Tulip-shaped glasses







Glasses for those funky Belgians







Nunne Bier at Den Heksestoel

(The Witches Den, Heuvelland, Belgium)





Conclusions

Factors for enjoying your beer

- 1. Use a proper glass that satisfies
- 2. Use a style appropriate glass
- 3. Keep it clean
- 4. Enjoy the look, aroma and taste of your beer!

Acknowledgments

Major Contributors

Prof Charlie Bamforth, Prof Freddy Delvaux, Dr Marion Sheehan, Michael Oberdyke, Rebecca Newman, Dr 'Ansku' Nuutila

Assistance: Very many people!



Dragon Boat Paddling, Derwent River, Hobart: Alison Morant © anhc 2018