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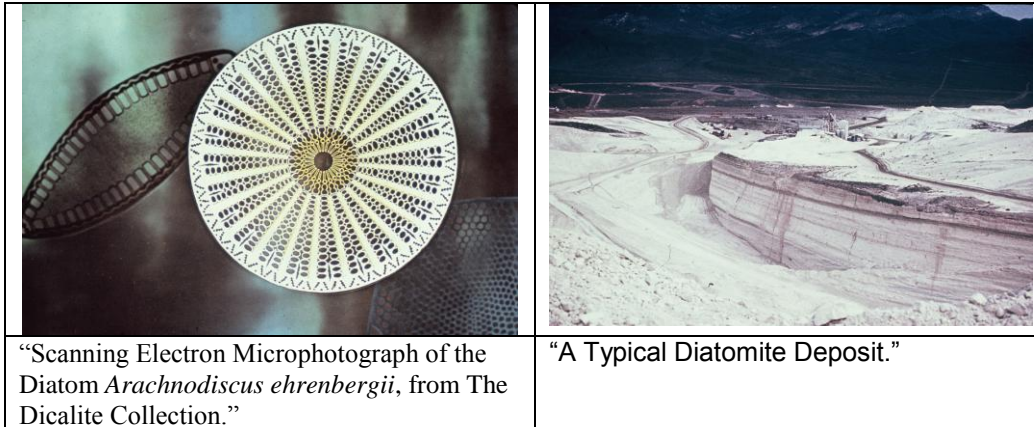
Report on MBAA DISTRICT ONTARIO ONE-DAY TECHNICAL CONFERENCE PRE-CONFERENCE SEMINAR

On Thursday January 24, 2008, District Ontario repeated a successful format used in the past that involved a free seminar on the afternoon preceding their well known One-Day Technical Conference, held each January for the last 35 years.

This year the theme was **FILTRATION IN LARGER AND SMALLER BREWERIES**. The emphasis was on the practical and operational application of filtering in both large and small breweries.

1.0 Beer Filtration with Filter Aids – Still the Principal Filtration in Almost All Large and Small Breweries

- Ed Bridge of General Filtration gave a great overview of *Liquid Solid Separations in the Brewing Process & Effective Use of Filter Aids*. His presentation included vital facts about filtration techniques Precoating and Bodyfeed, keying in on the various filter materials that can be used such as Diatomaceous Earth (D.E.) or Kieselguhr, Perlite, Cellulose. He even covered some Beer Stabilizers such as silica gels. His 'dozen practical strategies for better filtration' should be memorized by all brewers.



- Bill Lawrence of General Filtration covered the many variations of filter vessels in his presentation titled *Operating Tips and Maintenance Essentials of Pressure Leaf Filters*. He incorporated great pictures and diagrams to educate us on the pros and cons of each filter style and how they operate.
- Ueli Schrader of Beverage Engineering Inc., discussed *Filtration in Larger and Smaller Breweries*, keying in on 'candle filters'. The audience showed their appreciation for his talk with many questions afterwards. If a picture is worth a thousand words, then Ueli is to be complimented on his style of teaching using both text and pictures to cover the many things to know about candle filters and their effective operational steps required to optimize their performance.
- Michael Duggan of Robert Simpson Brewery treated *Small Brewery Pressure Leaf Filtration*, covering Safety, Filter Types, Repair and Maintenance, Filtration Start-up, Pre-coat Application, Body feed Considerations, Scavenger Plate Operation and Post-DE Trap Filtration. Once again, the audience reacted by asking Michael many follow-up questions

2.0 Other Beer Filtrations

- Ed Bridge discussed *Filter Pad Filtration* explaining the concept of having, as it were, an “Instant Filter Cake.” We learned about the various materials used in their construction and how to select the proper grade of pad for the required application. Operationally Ed took us thorough the way to prepare or set-up a pad filter and how to operate it
- Bob Tyler of Pall Food and Beverage keyed in on membrane filtration post-DE filtering for Cold Microbiological Stabilization. He reviewed the Three Stages of Filtration Post-DE, the Differences in types of Membrane Filters, the Operating / Cleaning / Storing of Filters, the various Filter Housings and a specific review of *CO₂ Filtration for a Brewery*.

3.0 Utility Filtrations in the Brewery

- Bill Lawrence then brought us up to date on the use of Carbon Filters for the treatment of Brewing Water in small breweries and how to use this effective tool to remove undesirable compounds from sourced water. He showed how carbon cartridges could be used effectively by small brewers as an alternative to the large activated carbon towers used in large breweries.

Ed Bridge summed up the five hours that had passed by so quickly. Each participant was able to take away copies of the various presentations.

Travis Audet, VP of District Ontario and Chair of the MBAA Educational Committee reminded us that one of the key goals of our association is to educate our members in brewing matters.

He then thanked all the presenters and participants for a very successful seminar.