

Modern Perfumery Chemicals

BSP Symposium Report By Lee Faber

The third annual symposium of Modern Perfumery Chemicals, sponsored by the British Society of Perfumers was held at the London Tara Hotel on April 14, 1983. There were approximately 130 participants from over 30 companies, an increase from last year's symposium. Participants were divided into three sections, so that the six presenting companies each made three presentations. David Butterfield, President of the BSP, organized the proceedings.

Each company presented three products:

Speaking for Bush Boake Allen, Richard Wagner presented *Amboryl acetate*, an isomeric mixture of sesquiterpenoid acetates. Its odor is delicate but tenacious—a woody-amber character reminiscent of vetiveryl acetate, sandalwood and clary sage. Amboryl acetate has wide application from fine perfumes to more functional products. It is of particular value in woody, spicy and oriental compounds and has considerable potential for men's toiletries. It is priced at £6.50/kg in drum lots.

Amborol 50 is an isomeric mixture of sesquiterpenoid alcohols. For convenience of handling, it is sold as a solution in dipropylene glycol. Amborol 50 has a warm and woody odor with notes of amber and clary sage. It has much the same applications as the previous product, is compatible with a wide range of perfumery materials and has marked fixative properties. It is priced at £4.00/kg.

Guaiarome is a complex mixture of sesquiterpenoid hydrocarbons. It has a natural balsamic woody odor with peppery undertones. It is stable in a wide range of cosmetic, toiletry and household products and can be used in conjunction with a range of fragrance raw materials to impart a natural character. It is particularly effective in simulated essential oils and extenders, especially geranium and, in traces, rose

complexes. It gives an original note to oriental, woody and spice compositions. It is also of interest in fougères, in combination with oak-moss and modern specialty woody fragrance materials, such as Amboryl Acetate and Valanone B, an isolongifolene ketone. Guaiarome is priced at £9.75/kg.

Dr. Hans-Ulrich Warnecke presented for Dragoco. *Brahmanol-F* is an alicyclic alcohol with a typical and tenacious sandalwood note. The typical characteristics of sandalwood oil are strengthened by a slight musky undertone and fortified fixative properties. It has very good stability in soaps, detergents, fabric softener and foam bath. It is a new quality of Brahmanol which, because of its stability and substantivity, is recommended for use in detergent powder and fabric softener. In terms of concentration, it will display fantasy notes at 1-2%, floral notes at 5-1% and woody notes at 5-10% concentrations. It is priced at 130DM/kg.

Muguetalcohol is an aromatic alcohol with a fine floral lily of the valley note. Its stability is good in soaps, detergents, fabric softeners and antiperspirants. It is a strong fixing floral fragrance complex which shows best performance in all lily of the valley fragrances. It is also useful for its jasmine character. This chemical can easily be overdosed, though. It can be used successfully in up to 3% concentration. Higher concentrations will eliminate the topnote. It is priced at 40 DM/kg.

Rholiate is an ester with the velvety-warm scent of dark-red roses with a radiance yet unknown. The topnote's lively effect is present through all stages of evaporation. It has good stability in soap, detergent, fabric softener, shampoo, deodorant and antiperspirant sprays. Concentrations of 1-1% will produce rose notes, 1-2% will give floral, fancy notes and 3% woody,

Pictured clockwise from top left: Richard Wagner of Bush Boake Allen; Dr. H. Warneke of Dragoco; Dr. Ulrich Harder of Haarmann & Reimer; Gerard Pelpel and Francois Masquin of Roure Bertrand Dupont; David Butterfield of International Flavors & Fragrances; and Fausto Resonico, Tony Pettifer and John Symes of Givaudan.

herbal notes. It is priced at 195 DM/kg.

Tony Pettifer presented Givaudan's chemicals. *Dimethyloctenone* is a new aromatic chemical. It is reminiscent of the natural bitterness of grapefruit. It is very powerful and long-lasting. At the same time, it has excellent stability in soaps and other functional products. It blends well with almost all accords, but especially with vetiver and floral aldehydic fragrances, where it increases the impact. Its utilization with certain modern accords can give original and very natural effects. Its fresh, fruity character makes it very useful in "back to nature" concepts. It is priced at £25/kg.

Oxyoctaline Formate has an original powerful and long-lasting character. It blends well with most other woody notes and its richness and elegance allow perfect harmony with natural woody products. It gives excellent effects even at low concentrations and can be used in all types of compositions: detergents, soaps and cosmetics, as well as lotions and extracts. The original woody note of this chemical is recommended for all kinds of fragrances, and blends

very well in compounds where a new fine woody modification is required. It is priced at £30/kg.

Lime Oxide imparts a new, fresh stable lemon-lime-type odor. It has a vibrant character and adds a fresh sparking effect to a compound. Citrus effects are much improved by the use of this product. Lime oxide has been identified in lime oil and can be used as a citrus booster, giving natural freshness. Its outstanding freshness and stability give new modern accords especially for soaps and detergents, shampoos and cosmetic preparations. It is priced at £20/kg.

Dr. Ulrich Harder spoke for Haarmann & Reimer. *Maderan*, a specialty chemical, has a woody, somewhat cedar-like odor with an ambergris note. Being a harmonious woody component, it has manifold uses. Interesting accords are obtained with green, floral, fruity and animal notes, as well as with heavy, balsamic perfumes. Depending on the type of perfume composition, the dosage may be from 3-20%. It has proved to be stable in alcoholic lotions, cosmetic emulsions, powder, aerosols, liquid antiperspirant,

shampoo, soap, foam bath, bath salts, fabric conditioner and universal cleaner with pH 12.2. It is priced at £22/kg.

Vertosine has an intensive, capricious floral-aldehydic leafgreen note, recalling the green note of Genista (Genêt). It produces very beautiful effects in floral notes which fit in well with anthranilates, e.g., genêt, gardenia, honeysuckle, tuberose, narcissus, lime blossom, mimosa, jasmine, orange blossom, lilies, etc. In dosages of .1-4%, in some cases more, Vertosine gives citrus notes a fresh peel-like note and enhances green notes. Pine and other conifer complexes become livelier and more natural with the addition of Vertosine. It has proved very stable in the same compounds as Maderan, plus hair conditioner, detergent powder, dishwashing detergent and sodium perborate and amido-sulfonic cleaners. It is priced at £14/kg.

Ozonil is an aliphatic nitrile. It is a capricious complex of the citrus type, reminiscent of mandarin peel, fruity with peach components, with floral (cowslip), aldehydic, waxy, sea-breeze and metallic nuances. Due to its specific character and the fact that very little is needed, .05-.5% will generally suffice to achieve optimal effects. Ozonil has proved particularly useful as a component in citrus notes (mandarin, lemon, orange), where a natural peel effect is obtained, and in apple and peach compositions (up to 4%). It has interesting effects in soaps where fresh sea-breeze notes and other fresh flower notes are desired. Good accords are also achieved with aldehyde complexes, green notes and conifer fragrances. It is highly stable in alcoholic lotions, cosmetic emulsions, shampoo, hair conditioner, cold-wave foam fixation, foam bath, aerosols, liquid antiperspirants, soaps (including white soaps), talcs, fabric conditioners, detergent powder, liquid dishwashing detergent and general cleaning products. It is priced at £77/kg.

Ton Suurhoff presented the PFW chemicals. *Phloralid* has a very strong floral, minty-earthly odor. It is not very tenacious, but is a strong top-modifier. It is used in rosy bouquets, fougères and chypres, normally in a dosage of approximately 1%. It gives a good performance in soap, detergent, shampoo, household and cosmetic perfumes. It is priced at £31/kg, the price declining to £28 in larger quantities.

Amtolide is a multi-component mixture containing Tonalid and Phantolid, but no musk ambrette. It has a strong, radiant, warm musk odor, reminiscent of musk ambrette. It is very long lasting and may be used in all types of perfume compositions; its convenient liquid form adds to its area of application. In light types, 1-5% will enhance and round off a fragrance; in heavier perfumes, higher concentrations may be used,

exploiting its intense musk note, diffusive power and fixative effects. Amtolide is stable in acidic, alkaline, oxidizing and reducing media. It shows no irritating, sensitizing or neurotoxic effects. In order to prevent possible phototoxic reactions in consumer products which remain on the skin and are exposed to sunlight, it is suggested that concentration be limited to 7%. In products which are washed off the skin, it may be used without restriction. It is priced at £11/kg (£9/kg in larger quantities).

Costausol is a solution of Costaulon in triethyl citrate. It has a hairy animalic odor like costus root oil. It is very long lasting and a strong modifier for the dry-out. It blends very well with all animalic types of odors (civet, castoreum, musks, amber), with woody types and with oakmoss. It can be used at about the same dosage as costus root oil and will enrich all chypres, fougères and other fantasy perfumes. It is soluble in alcohol, carbitol, diethyl phthalate and dipropylene glycol. It is stable in most media and is priced at £31/kg. (£28 in larger quantities).

Gerard Pelpel spoke for Roure Bertrand Dupont, assisted by Francois Masquin. *Safranal* is an aldehyde with an odor characteristic of saffron. Its usage is for a middle/base note. It is very tenacious, staying more than 24 hours on a blotter. This product, in very low concentration (must be used in dilution at 1:1000), gives a spicy character to all types of compounds. It has stable color and odor in alcohol, cream, talc, and detergent powder. It is priced at 7,525 FF/kg.

Orcinyl 3 is a phenol/phenolether with an oakmoss odor and a fruity and iodine note. It has a very long lasting note. It works perfectly with Evernyl in the proportions of 25:75 to give a very powerful oakmoss note. Alone, especially in men's fragrances, it gives a special character and a lot of strength. It can be used in concentrations of 1-3%. It is color and odor stable in alcohol, talc, shampoo, antiperspirant, and soap. It is priced at 2,589FF/kg.

Jacene is an ether with a fresh green floral note reminiscent of syringa, hyacinth and sweet pea. It is used as a top/core note. Jacene gives a special and interesting effect in addition to giving strength to floral compositions. Because of its fresh and green note and its low price, it can be used in substantial proportions in numerous compounds. It blends well with woody and oakmoss notes. It is color and odor stable in alcohol, cream, talc, shampoo, antiperspirant, soap and detergent powder. It is priced at £30/kg.

After all the presentations were made, John Mayo of Bush Boake Allen gave a talk on "Analysis as an Aid to Perfumery," subtitled "Who needs perfumers anyway?" which follows this report,

