



Participants sign in at the registration desk.



Registration included 781 technical registrants, 144 participants in the spouses' program and 105 exhibit personnel.



Meeting participants board boats Wednesday afternoon for a trip across Lake Geneva and a stop in France.



Participants listen intently to technical talks, which are simultaneously translated into English, French and German.



Ted Brenner of the Soap and Detergents Association (left) and Bruno Werdelmann of Henkel KGaA, West Germany, converse during an evening party at the Château d'Oron.

Highlights from Montreux

The Second World Conference on Detergents last October in Montreux drew more than 1000 participants from 43 countries. The conference featured 44 technical talks, a summary session and 20 poster presentations, as well as an exhibit of 40 booths.

Social events included an opening reception cohosted by the city of Montreux, a boat trip on Lake Geneva and a gala evening at the Montreux Casino. Pages 278 and 280 feature a selection of photos from the conference.

Exhibit highlights

Participants at the Second World Conference on Detergents could visit 40 exhibit booths displaying information about the industry, from complete sulfonation plants to fragrance and enzyme options.

Exhibitors talked about a number of new or expanded products and available services.

One exhibitor took a different approach. Rhône-Poulenc exhibited a message, rather than a product. Addressing the question of phosphate usage in detergents and the impact on the environment, the company pointed out that phosphates contained in detergents represent only part of those found in waste; phosphorus deposits also originate in urban, agricultural and industrial wastes.

"Banning phosphates in detergents does not control the growth of algae in stagnant or slow-moving waters," Christopher Lamps of Hill & Knowlton and an agent for Rhône-Poulenc explained to booth visitors. The issue of the pros and cons of phosphate usage also generated controversy in the technical sessions.

Exhibiting for the surfactant and

detergent industry for the first time, Testfabrics Inc. of Middlesex, New Jersey, presented a booth on its service—that of supplying textiles, soiled and unsoiled fabrics, to the industry for testing soap and detergent products. The company said it maintains consistent inventory to enable surfactant and detergent manufacturers to eliminate textile substrate variables in testing.

Among the new or expanded products and services exhibited were the following:

New applications

- Baker Perkins' twin screw continuous mixers for soap and detergent production. Historically, this equipment has been used for compounding polymers in the plastics industry; another variation is used as a cooker/extruder for snack foods.



Alpine horns and folk dancers are among the features at a Swiss gala evening, held at the Montreux Casino.



Richard Bertozzi (center, wearing a white ribbon) explains the Dial Corp.'s Saponiflex process for manufacturing soaps and detergents in a poster presented in conjunction with Maschinenfabrik Gustav Eirich's exhibit booth.



On hand at Novo Industri A/S's exhibit booth, Robert Petrowski (left) of Novo Laboratories Inc. explains the attributes of one of the company's products.



Nelson Borys (right) of Horizon Chemical talks about his poster presentation on alkyl polyglycosides to Alfred Meffert of West Germany.



Speaker Qin Yong Geng of Shanghai, China, answers questions following his Monday afternoon talk on the detergent industry in China.

New technology, products

- Britannia Soap Machinery Co.'s hydraulic drive plodder for use in soap-making and a horizontal stroking stamping machine for making either banded or non-side-banded soap bars
- Meccaniche Moderne's compact soap finishing line in one machine, to eliminate equipment and save space; also, a simplified cutting machine using one blade and a stamping machine for producing small soap bars
- Novo Industri A/S's Cellulase enzyme for color brightening, softness and removal of particulate soil
- Integrated SO₂ production plant offered by I.I.T.S.r.L., which it claimed is an improvement to existing sulfonation technology; also, equipment for producing granulated detergents
- Binacchi Co. S.p.A.'s promotion of continuous saponification of fats, versus neutralization of fatty acids, for soapmaking
- Degussa AG's diperoxydodecanedioic acid (DPDDA) bleaching agent for low temperature washing,

introduced at the exhibit and aimed for the European market.

- Gist-Brocades' latest protease enzyme designed for lower wash temperatures
- Ballestra S.p.A.'s modification of sulfonation equipment to handle natural vegetable oil/animal fat-based materials versus petrochemicals
- Dynamix's slurry-aeration unit process to control the bulk weights or apparent densities of detergents, used in Europe, but not yet used in the U.S.
- Chemithon's precipitator designed for sulfonation plant pollution control for detergent spray towers and sulf(on)ation; also, a film reactor design for manufacturing sulf(on)ates developed by Chemithon and licensed to Lurgi
- APV Anhydro's absorption and agglomeration process for producing powdered detergent without using heat
- C.M.B. Costruzioni Meccaniche Bernardini S.p.A.'s revision of its fatty acid production process using automatic control; also, fatty acid

fractional distillation by using columns with structural packing

- Telschig-Verfahrenstechnik GmbH's continuous spray mixer for detergent production or as a post-mixing plant for spray drying
- Ciba-Geigy Ltd.'s latest photo-bleaching and blueing agent for use in low, medium and high temperature detergents; also, a fluorescent whitening agent (FWA) compatible with softergents (detergents and softeners)
- G. Mazzoni's revisions to spray drying and sulfonation plants, incorporating heat recovery and anti-pollution systems
- Promotion by Firmenich and Givaudan of more sophisticated fragrances to signal functions of detergent products
- Rohm and Haas' polymers, tailor-made for customers as phosphate replacements for detergents
- Maschinenfabrik Gustav Eirich's introduction to Europe of its Saponiflex process, unveiled at AOCS' annual meeting in Hawaii; this continuous process for producing soaps, developed in cooperation



Conference chairman Ted Matson (left) of Vista Chemical Co. and consultant Arno Cahn, one of the speakers for the conference's summary session, relax at the Château d'Oron. A number of castle parties were held in the evening to give participants a taste of Swiss hospitality and the opportunity to talk informally about their work.

with the Dial Corp., also was presented in a poster at the meeting

- Weber and Seeländer's compact mixer/refiner for soaps as well as synthetic chemicals

While not exhibiting a new product or service, Warwick Chemicals Division of Warwick International Ltd. said the company is expanding its capacity to produce TAED, a bleach activator for low-temperature detergents, to keep up with demand. Company representatives said an addition at its North Wales plant should be in operation by early spring of 1987. This marked the company's second expansion in two years, which company spokesmen said reflected the world trend for lower temperature detergents.

Ballestra, meanwhile, noted that there had been a boon in the last two to three years for new facilities in China. "We have provided 15 sulfonation plants that are in operation or are being built in China and six spray drying facilities," a company spokesman said. The plants, constructed for different provinces, are small to medium-sized, with average capacity of 1.5 tons per hour. Also, the company has supplied three sulfonation plants in Egypt, one in operation and two still under construction last fall. Meanwhile, he said, two

large plants, with capacity of three to four tons per hour, have been constructed in the Philippines and started up during 1986 by Unilever and Colgate-Palmolive.

Liquids plant

Colgate-Palmolive Co. has announced it will construct a liquids manufacturing facility in Cambridge, Ohio, 90 miles east of Columbus. The facility will manufacture Dynamo laundry detergent and Palmolive dishwashing liquid, the largest-selling dishwashing detergent in the U.S.

Plant construction is scheduled to be completed by the spring of 1988. The highly automated production facility is expected to create approximately 140 permanent jobs.

Colgate-Palmolive officials said the Ohio site was selected because its location could serve the greatest concentration of consumers in the midwest and northeast U.S. markets. It also is located near key interstate highways.

Sherex expands

Sherex Chemical Co. is expanding fatty amine capacity at its Mapleton (Peoria), Illinois, plant. The new process area will provide an overall 50% increase in nitriles; primary, secondary and tertiary amines; and diamine capacities.

During 1986, Sherex placed 40 million pounds of surfactant capacity onstream at its Janesville, Wisconsin, plant. According to the company, the Mapleton plant will be the largest of its type in the world following a series of oleochemical investments scheduled over the next three years. It is being designed to process over 500 million pounds of quaternaries, fatty amines, alcohols and acids annually.

LAB units

UOP Inc. has agreed to license a linear alkylbenzene (LAB) production complex to Reliance Industries Ltd. of Bombay, India.

UOP will provide a "Pacol" unit and a detergent alkylate unit under the agreement. The complex, to be located in Patalgana, near Bombay, will be capable of producing 50,000 metric tons (MT) of LAB per year from linear paraffin feedstocks. This addition will give India capacity to produce 143,000 MT of LAB annually.

Meanwhile, Monsanto Chemical Co. announced it would start construction early in 1987 on a 50-million-pound expansion of its linear alkylbenzene production unit at the company's Chocolate Bayou plant in Alvin, Texas.

The expansion, approved by Monsanto's board of directors, is expected to be in operation in late 1988 and will bring the unit's annual capacity to 300 million pounds.

Singapore plant

Yoshikawa Oil and Fat. Co. Ltd., a large lanolin manufacturer for the cosmetics industry, will construct a new factory for lanolin and its derivatives in Singapore.

Yoshikawa Chemicals Singapore, established as a subsidiary company, will erect wool grease treating facilities, set for operation in 1988. The original capacity will be 400 metric tons (MT) per month, with plans to expand to 800 MT by 1992.

The company, which plans to invest \$7 billion in the facility, hopes to increase its share of the world lanolin and lanolin derivative production to 50-60%, from its current 30% share.

GAF's plans

GAF Corp.'s acquisition of Borg Warner's surfactant and phosphate ester businesses and its Spartanburg, South Carolina, manufacturing plant will allow GAF to produce more block polymers and many of the products for the oil industry that the company could not produce previously, according to Bill Kristoff, GAF's business unit director for surfactants.

Among the products the company will now be able to produce are

a series of emulsion breakers for use in water flooding of oil wells that are already producing and well stimulation products to open up drilling wells. The block polymers will have a wide range of use in emulsifications and hard surface cleaners, Kristoff said.

"The plant will allow us to have a southeast manufacturing location where we have a heavy business," Kristoff said. The company's other two plants are in Calvert City, Kentucky, and Linden, New Jersey.

German meeting

The German Society of Cosmetic Chemists will host the 1987 International Federation of Societies of Cosmetic Chemists' (IFSCC) in-between Congress Conference, slated for Sept. 17-18, 1987, in Munich, West Germany.

The Cosmetic Science Update '87 meeting is a joint conference on dandruff, nails, hair growth and hair dyes. Sessions, translated simultaneously into German and English, will be held at the Arabella

Conference Centre, Arabella Hotel Munich.

For details or program, contact Dr. R. Müller, German Society of Cosmetic Chemists, c/o Dralle GmbH, Gründgensstr. 6, 2000 Hamburg 60, West Germany.

OSHA notice

The Occupational Safety and Health Administration (OSHA), U.S. Department of Labor, has issued a notice recommending that a revised standard be offered to regulate worker exposure to four glycol ethers—2-methoxyethanol, 2-ethoxyethanol, 2-methoxyethanol acetate and 2-ethoxyethanol acetate.

Responding to concern by the U.S. Environmental Protection Agency (EPA) over these substances, OSHA said the risk from exposure to the four may be eliminated or significantly reduced by revising workplace regulations.

A major use for the glycol ethers and their acetates is in formulating surface coatings.

News briefs

American Cyanamid Co. has appointed **William J. Murray** vice-president of its Polymer Products Division, manufacturing and marketing engineered materials, additives and specialty chemicals for the aerospace, automotive, paint and coatings and plastics industries.

Richard A. Winstanley has joined **Horizon Chemical**, a division of A.E. Staley Manufacturing Co., as a sales manager for surfactants.

Ralston Purina has named **Dale R. Dill** director of research and development in its polymer division and **Thomas B. Merrifield** manager of sales service and R&D. Among Merrifield's responsibilities will be research projects using soy-based products for the paper coatings industry.

American Cyanamid Co. in December announced that its fine fragrance and skin care subsidiary, **Jacqueline Cochran Inc.**, was for sale.

Five executives of **Velsicol Chemical Corp.** have purchased the company from **William F. Farley**, Farley Industries, Chicago. Financial details of the sale were not disclosed. **Arthur R. Sigel**, head of the executive team purchasing the company, will serve as president and chief executive officer. The other four executives are **Lawrence M. Hartman**, executive vice-president; **Charles H. Frommer**, vice-president of regulatory, government and public affairs; **David M. Frederick**, vice-president of sales and marketing; and **Charles R. Hanson**, vice-president of environmental management. Also, the company has promoted **Donald M. Stapp** to product manager for specialty chemicals sales and marketing group.

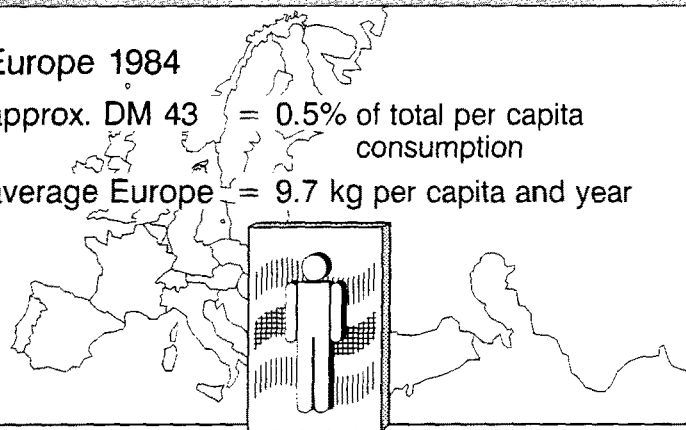
Carlos Dorris of **Jones-Blair Co.**, Dallas, Texas, is the current president of the **Federation of Societies for Coatings Technology**. Other officers are **Deryk R. Pawsey** of

Per Capita Expenditures Washing and Cleaning Detergents in DM

Europe 1984

approx. DM 43 = 0.5% of total per capita consumption

average Europe = 9.7 kg per capita and year



Europe contains 10% of the world's population but uses 27% of the world detergent production. During the 1980-85 period, average annual growth was 7.5% in terms of value; current forecasts expect an annual increase closer to 4% in coming years. Europeans spend an average of 43 deutsche marks (US \$20-22) annually, or about 0.5% of total annual expenditures.

— From "The Detergent and Cleanser Market in Europe," presented by Hans-Dietrich Winkhaus, executive vice-president of Henkel KGaA, Düsseldorf, West Germany, during the Second World Conference on Detergents, Oct. 5-10, 1986, Montreux, Switzerland.

Rohm and Haas Canada, Vancouver, British Columbia, president-elect; and James E. Geiger of Sun Coatings Inc., Largo, Florida, treasurer.

Croda Universal Ltd. has opened a research and development center at its Hull factory site, Hull, England. In other action, Croda Universal has appointed David E. Barra-

clough sales director for its range of fatty acids, amides, amines, specialty surfactants, esters, emulsifiers, super refined oils and food emulsifiers.

Surfactants & Detergents Calendar

1987

March

Introductory Short Course, Basic Composition of Coatings, March 9-13, 1987, University of Missouri-Rolla, Rolla, Missouri. Contact: Coatings Continuing Education, Department of Chemistry, 142 Schrenk Hall, University of Missouri-Rolla, Rolla, MO 65401-0249.

Symposium on Natural Base Cleaning and Personal Care Products, March 18-21, 1987, Guangzhou, China. Contact: National Renderers Association Inc., China Office, 27E Kam Kin Mansion, 123 Caine Rd., Hong Kong.

Introductory Short Course on Paint Formulation, March 23-27, 1987, University of Missouri-Rolla, Rolla, Missouri. Contact: Coatings Continuing Education, Department of Chemistry, 142 Schrenk Hall, University of Missouri-Rolla, Rolla, MO 65401-0249.

XVIII meeting of CED/AID on Surfactants, March 25-27, 1987, Palacia de Congresos de Barcelona, Barcelona, Spain. Contact: Secretaría de la Asociación de Investigación de Detergentes (AID), Jorge Girona Salgado, 18-26—Edificio Juan de la Cierva, 08034, Barcelona, Spain.

May

Short Course, Introduction to Polymer Chemistry, May 4-8, 1987, University of Missouri-Rolla, Rolla, Missouri. Contact: Coatings Continuing Education, De-

partment of Chemistry, 142 Schrenk Hall, University of Missouri-Rolla, Rolla, MO 65401-0249.

Short Course, Physical Testing of Paints and Coatings, May 11-15, 1987, University of Missouri-Rolla, Rolla, Missouri. Contact: Coatings Continuing Education, Department of Chemistry, 142 Schrenk Hall, University of Missouri-Rolla, Rolla, MO 65401-0249.

June

Oil and Colour Chemists' Association Conference 1987, June 17-20, 1987, Eastbourne, England. Theme "Advances and Application of Science and Technology in Surface Coatings." Contact: Director and Secretary, Oil and Colour Chemists' Association, Priory House, 967 Harrow Rd., Wembley, Middlesex HA0 2SF, England.

September

AOCS Short Course on Fatty Acids, Sept. 13-16, 1987, Kings Island Resort, Ohio. Contact: Meetings Manager, AOCS, PO Box 5037, Station A, Champaign, IL 61820.

Cosmetic Science Update '87, Joint Conference on Dandruff, Nails, Hair Growth and Hair Dyes, Sept. 17-18, 1987, Munich, West Germany, hosted by the German Society of Cosmetic Chemists. Details: Dr. R. Müller, German Society of Cosmetic Chemists, c/o Dralle GmbH,

Gründgensstr. 6, 2000 Hamburg 60, West Germany.

October

1987 Annual Meeting and Paint Industries' Show, Federation of Societies for Coatings Technology, Oct. 5-7, 1987, Convention Center, Dallas, Texas. Details: Federation of Societies for Coatings Technology, 1315 Walnut St., Philadelphia, PA 19107.

1988

World Surfactants Congress II, "Surfactants in our world—today and tomorrow," May 24-27, 1988, Paris, France. Organized by ASPA, France, and sponsored by the European Committee on Organic Surfactants and Their Intermediates, Avenue Louise 250, Bte. 102, B-1050 Brussels, Belgium.

Cosmetic Science '88—Achievements and Aims, 15th international congress of the International Federation of Societies of Cosmetic Chemists, Sept. 26-29, 1988, Grosvenor House, Park Lane, London, England. Contact: Society of Cosmetic Scientists, Delaport House, 57 Guildford St., Luton, Beds LU1 2NL, England.

ISF/JOCS Joint World Congress, Sept. 26-30, 1988, Tokyo, Japan. Contact: ISF/JOCS World Congress 1988, Secretariat, The Japan Oil Chemists' Society, 7th floor, Yushi Kogyo Kaikan, 13-11 Nihonbashi 3-chome, Chuo-ku, Tokyo 103, Japan.