

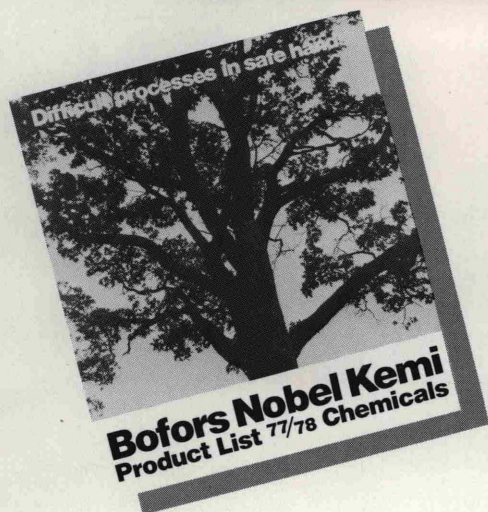


3-Acetamido-  
5-aminobenzoic acid  
m-Acetamidobenzoic  
acid  
m-Aminobenzoic acid  
p-Aminobenzoic acid,  
(PABA)  
5-Amino-  
2-chlorobenzoic acid  
Benzocaine  
Bonomold<sup>®</sup>  
(p-Hydroxybenzoic  
acid esters)  
Bonopent<sup>®</sup>  
(Pentaerythritol  
-tetranitrate)  
2-Chloro-  
4-nitrobenzoic acid  
2-Chloro-  
5-nitrobenzoic acid  
4-Chloro-  
3-nitrobenzoic acid  
o-Chlorobenzoic acid

3,5-Diaminobenzoic  
acid  
2,4-Dichlorobenzoic  
acid  
N,N-Dimethyl-m-  
aminobenzoic acid  
N,N-Dimethyl-p-  
aminobenzoic  
acid ethyl ester  
3,5-Dinitrobenzoic  
acid  
3,5-Dinitrobenzoyl  
chloride  
Etrynit<sup>®</sup>  
(Proparyl nitrate)  
Hexanicit<sup>®</sup>  
(Mesoinositol  
hexanicotinate)  
Isocinchomeric  
acid  
Isonicotinic acid  
Isonicotinic acid  
ethyl ester  
Isosorbide dinitrate  
lactose mix  
Mucic acid  
Nicotinamide

m-Nitrobenzoic acid  
o-Nitrobenzoic acid  
p-Nitrobenzoic acid  
p-Nitrobenzoic acid  
ethyl ester  
m-Nitrobenzoyl  
chloride  
p-Nitrobenzoyl  
chloride  
5-Nitroisophthalic  
acid  
5-Nitroisophthalic  
acid diethyl ester  
5-Nitroisophthalic  
acid dimethyl ester  
5-Nitroisophthalic  
acid monoethyl ester  
3-Nitrophthalic acid  
o-Nitrophenylacetic  
acid  
Procaine HCl  
Pyromellitic acid  
Salicylsalicylic acid

# Outlook on Bofors Chemical Program



We are experts in nitration and nitric acid oxidation. Our regular production comprises high quality chemicals mainly for the pharmaceutical, dyestuff and colour film industries. Most of our products are available from stock, which means reliable delivery dates. However, we would be pleased to discuss with potential customers new projects, products and custom manufacture of any chemical within our sphere of technologies.

To make you further acquainted with our products, we have illu-

strated them in a product list, in which you can find the chemical composition of each product. The Bofors Nobel Kemi Product List 77/78 has just been published. Ask for your free copy today. Further information on Bofors Chemicals is given in our Technical Data Sheets and in Bofors Nobel Kemi Bulletin, which will regularly report our latest developments.



**BOFORS  
NOBEL KEMI**

Box 800,  
S-690 20 Bofors, Sweden  
Phone: 46-(0)586-36000  
Telex: 73346 Bonobel S

In the US call on: BOFORS LAKEWAY, INC., 1 World Trade Center, Suite 10225, New York, N.Y. 10048, Tel: (212) 466-0157  
BOFORS LAKEWAY, INC., 5025 Evanston Avenue, Muskegon, Michigan 49443, Tel: (616) 788-2341

# THE FRENCH REVOLUTION THAT TURNED A LUXURY INTO A HABIT.

Soap is one of those commonplace articles that inevitably accompany higher civilization.

It was probably invented by the Egyptians several thousand years ago.

Certainly the Phoenicians were familiar with it by 600 B.C.

Its importance was amply proved after the soapmaker's art was lost with the fall of the Roman Empire. The soapless centuries between 500 and 1500 A.D. were notorious for the devastating plagues which nearly depopulated a fiercely unsanitary Western Europe.

Even when the soapmakers returned to their craft, however, the scarcity of lye, an essential ingredient, made their work both tedious and expensive. Lye, or alkali, could be obtained only by soaking wood or seaweed ashes in water.

It was then boiled with animal or vegetable fats to form the finished product. In 1580, the price of soap was still so exorbitant that Queen Elizabeth I herself could only afford three baths a month.

Soap remained a rare commodity until about 1791 when a French surgeon, Nicholas Leblanc, discovered a cheap method of obtaining alkali from common salt.

Within a decade, soapmaking was no longer a small-scale art patronized by the wealthy. It had become available to all and an item of daily use.

Soap continued to be the mainstay for household and industrial cleanliness

until after World War II when synthetic detergents, which provide superior performance in alkaline and hard water, began to grow rapidly in volume. Synthetic detergents now constitute almost 85% of the U.S. consumption of cleaning products.

Today, the average American uses 30 pounds of soap and synthetic detergents every year, making this the most hygiene-conscious nation in history.

For the past 15 years Union Carbide has produced the broadest range of chemicals for manufacturing the modern detergents that make this prodigal indulgence in cleanliness possible.

We are the only surfactant producer supplying ethoxylates of primary alcohol, secondary alcohol and nonyl phenol, as well as alcohols, alkyl benzenes, ethanolamines, glycol ethers and polyethylene glycols for use in formulating detergents and cleaning compounds.

A call to one of our sales offices will not only enable you to tap a vast reservoir of knowledge vital to the detergent maker.

It will also give us the chance to come clean with the products we're developing for a brighter tomorrow.

**PEOPLE PLANNING THE FUTURE.**



Chemicals and Plastics

(A complete list of our sales offices appears on the following page)



## HERE ARE THE SALES OFFICES THAT CAN ANSWER YOUR CHEMICAL AND PLASTICS NEEDS.

Our advertisement on the preceding page tells why we're the leading supplier of chemicals to the detergent industry.

To place your order, or to learn more about our total capabilities, please call the sales office nearest you.

<b>Boston, Mass.</b> 02194 300 First Avenue Needham Heights 617-444-5400	<b>Cleveland, Ohio</b> 44114 1300 East 9th Street 216-621-4200
<b>New York</b> (Metropolitan) Hackensack, N.J. 07601 1 University Plaza 201-646-1111 212-695-5054	<b>Southfield, Mich.</b> 48037 26500 Northwestern Highway 313-354-0800
<b>Tonawanda, N.Y.</b> 14150 Chemicals & Plastics P.O. Box 44 716-877-1600	<b>Chicago, Ill.</b> 60606 120 So. Riverside Plaza 312-454-2000
<b>Atlanta, Ga.</b> 30359 17 Executive Park Drive, NE 404-633-6161	<b>St. Louis, Mo.</b> 63105 10 South Brentwood Blvd. 314-726-1020
<b>Charlotte, N.C.</b> 28210 6230 Fairview Road 704-364-1400	<b>Long Beach, Calif.</b> 90802 100 Oceangate 213-435-3721
<b>Kansas City</b> 800-621-8236	<b>Dallas, Texas</b> 75207 2710 Stemmons Freeway 214-631-0010
<b>Moorestown, N.J.</b> 08057 308 Harper Drive 609-235-6200	<b>Houston, Texas</b> 77046 2 Greenway Plaza East 713-621-1000
<b>Pittsburgh, Penn.</b> 15220 875 Greentree Road 412-922-5700	<b>San Francisco, Calif.</b> 94111 1 California Street 800-352-3789
<b>Cincinnati, Ohio</b> 45227 West Street & Madisonville Rd. 513-272-0206	<b>From Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington or Wyoming</b> 800-421-3724
<b>Minneapolis</b> 800-621-2510	

**PEOPLE PLANNING THE FUTURE.**



Chemicals and Plastics

## Meetings

### Calendar of Events

#### Future ACS national meetings:

**April 1-6, 1979.** Honolulu  
**Sept. 9-14, 1979.** Washington, D.C.  
**March 23-28, 1980.** Houston  
**Aug. 24-29, 1980.** San Francisco  
**March 29-April 3, 1981.** Atlanta  
**Aug. 23-28, 1981.** New York City  
Write Meetings Dept., ACS, 1155-16th St., N.W., Washington, D.C. 20036.

**Feb. 12-13. "Coal Dilemma II"—ACS 4th Winter Symposium on Energy.** Sponsored by I&EC Division. Broadmoor Hotel, Colorado Springs. Write Shirley E. Blackwell, ACS, 1155-16th St., N.W., Washington, D.C. 20036

**Feb. 12-13. 28th Oilseed Processing Clinic.** Marriott Hotel, New Orleans. Write Dr. Mary Carter, P.O. Box 19687, New Orleans, La. 70179.

**Feb. 12-17. Forensic Scientists Annual Mtg.** Atlanta. Write American Academy of Forensic Sciences, 11400 Rockville Pike, Rockville, Md. 20852.

**Feb. 16. Soc. of Chemical Industry Perkin Medal Award Dinner.** Plaza, New York City. Write Agnes Peterson, SCI, 50 East 41st St., New York, N.Y. 10017.

**Feb. 21-22. Mid-Winter Mtg. of Chemical Group, NAPM.** Continental Plaza Hotel, Chicago. Write William A. Haigh, Searle Labs, 4901 Searle Pkwy., Skokie, Ill. 60076.

**Feb. 27-28. NIOSH-sponsored Symp. on Control Technology in the Plastics and Resins Industry.** Atlanta Hilton Hotel, Atlanta. Write S. T. Fino, Enviro Control, 11300 Rockville Pike, Rockville, Md. 20852.

**March 2. Interdisciplinary Cancer Research Workshop.** New Orleans. Write Dr. Peter Politzer, Dept. of Chemistry, U of New Orleans, New Orleans, La. 70122.

**March 3-5. 29th Annual Gas Conditioning Conf. U of Oklahoma, Norman, Okla.** Write W. E. Kinnebrew, U of Oklahoma, 1700 Asp Ave., Room 237, Norman, Okla. 32037.

**March 5-7. 35th Annual CDA Mtg.** Waldorf-Astoria Hotel, New York City. Write Carroll Greathouse, CDA, 999 Bedford St., Stamford, Conn. 06905.

**March 5-7. 4th Annual Conf. on "Environmental Regulations: the Regulators and the Regulated."** Miami, Fla. Write National Assoc. of Environmental Professionals, P.O. Box 1223, Alexandria, Va. 22213.

**March 5-9. 30th Pittsburgh Conf. on Analytical Chemistry & Applied Spectroscopy.** Cleveland. Write H. Retcofsky, PERC/DOE, 4800 Forbes Ave., Pittsburgh, Pa. 15213.

**March 9-10. New York Academy of Sciences Einstein Centennial.** Roosevelt Hotel, New York City. Write Einstein Committee, New York Academy of Sciences, 2 East 63rd St., New York, N.Y. 10021.

**March 19-20. 3rd Biennial Carl S. Marvel Symp. U of Arizona, Tucson.** Write Richard Glass, Dept. of Chemistry, U of Arizona, Tucson, Ariz. 85721.

**March 19-23. 13th Middle Atlantic Reg. Mtg.** Monmouth Coll., Long Branch, N.J. Write Larry L. Maples, IFF-R&D, 1515 Hwy. No. 36, Union Beach, N.J. 07735.

**March 20-21. 22nd Annual Tech. Conf. on "Advances in Coatings Technology."** Baldwin-Wallace College, Berea, Ohio. Write George S. Sajner, Body Bros., 214 Northfield Rd., Bedford, Ohio 44146.

**March 27-30. ACS 115th Rubber Div. Mtg.** Hyatt Regency, Atlanta. Write Mrs. M. E.

Bauer, Rubber Division Inc., U of Akron, Akron, Ohio 44325.

**March 28. American Oil Chemists' Soc. Annual Symp. of North Central Section.** Skokie, Ill. Write George Willhite, AOCS, 508 South Sixth St., Champaign, Ill. 61820.

**March 28-30. ACS Conf. on Tropical Foods: Chemistry & Technology.** Div. of Agricultural & Food Chemistry. Write G. Inglett, USDA-NRRC, 1815 North University, Peoria, Ill. 61604.

**March 28-30. Conf. on Transition Metal Mediated Organic Syntheses.** Barbizon Plaza Hotel Theatre, New York City. Write Conference Director, New York Academy of Sciences, 2 East 63rd St., New York, N.Y. 10021.

**March 28-30. 4th Intl. Technical Conf. on Slurry Transportation.** Aladdin Hotel, Las Vegas, Nev. Write Slurry Transport Assoc., 490 L'Enfant Plaza East, S.W., Suite 3210, Washington, D.C. 20024.

**March 29-30. Flavor Research Workshop.** ACS Division of Agricultural & Food Chemistry. Honolulu. Write R. Teranishi, USDA, Western Regional Research Lab, 800 Buchanan St., Berkeley, Calif. 94710.

**April 1-5. AIChE 86th Natl. Mtg.** Houston. Write AIChE, 345 East 47th St., New York, N.Y. 10017.

**April 1-6. Multinational Symp. on Finishing of Cotton.** ACS Cellulose, Paper & Textile Division and UNIDO. Honolulu. Write J. J. Willard, 400 Main St., Bethel, Me. 24217.

**April 2-4. 60th Annual Mtg. of Dairy & Food Industries Supply Assoc.** Palm Beach, Fla. Write DFISA, 5530 Wisconsin Ave., N.W., Suite 1050, Washington, D.C. 20015.

**April 17-20. 4th Symp. on Environmental Aspects of Fuel Conversion Technology.** Diplomat Hotel, Hollywood, Fla. Write Dr. Martin F. Massoglia, Research Triangle Institute, P.O. Box 12194, Research Triangle Park, N.C. 27709.

**April 24-26. Vacuum and Thin Film, Electro-Optics, Analytical Instruments, and Thick Films Conf. & Exhibit.** Sheraton-North Shore Inn, Northbrook, Ill. Write George E. Magerl, Byron Ellis Associates, 650 First Ave., Des Plaines, Ill. 60016.

## Call for papers

The ACS Virginia Blue Ridge Section will host the 31st Annual Southeastern Regional Meeting in Roanoke, Va., on Oct. 24-26. The meeting, including exhibits, symposia, and general sessions, will be held at the Hotel Roanoke. James F. Wolfe of Virginia Polytechnic Institute and State University is the general chairman for the meeting.

Papers are invited for both the symposia and general session. Planned symposia will include: Analytical Biochemistry, Cancer Chemotherapy, Chemical Crystallography, Chemical Demonstra-

### Notice to emeritus members

ACS/CSJ cordially invites emeritus members of ACS to attend the forthcoming chemical congress in Honolulu at a registration fee of \$20 in advance, as well as on site.