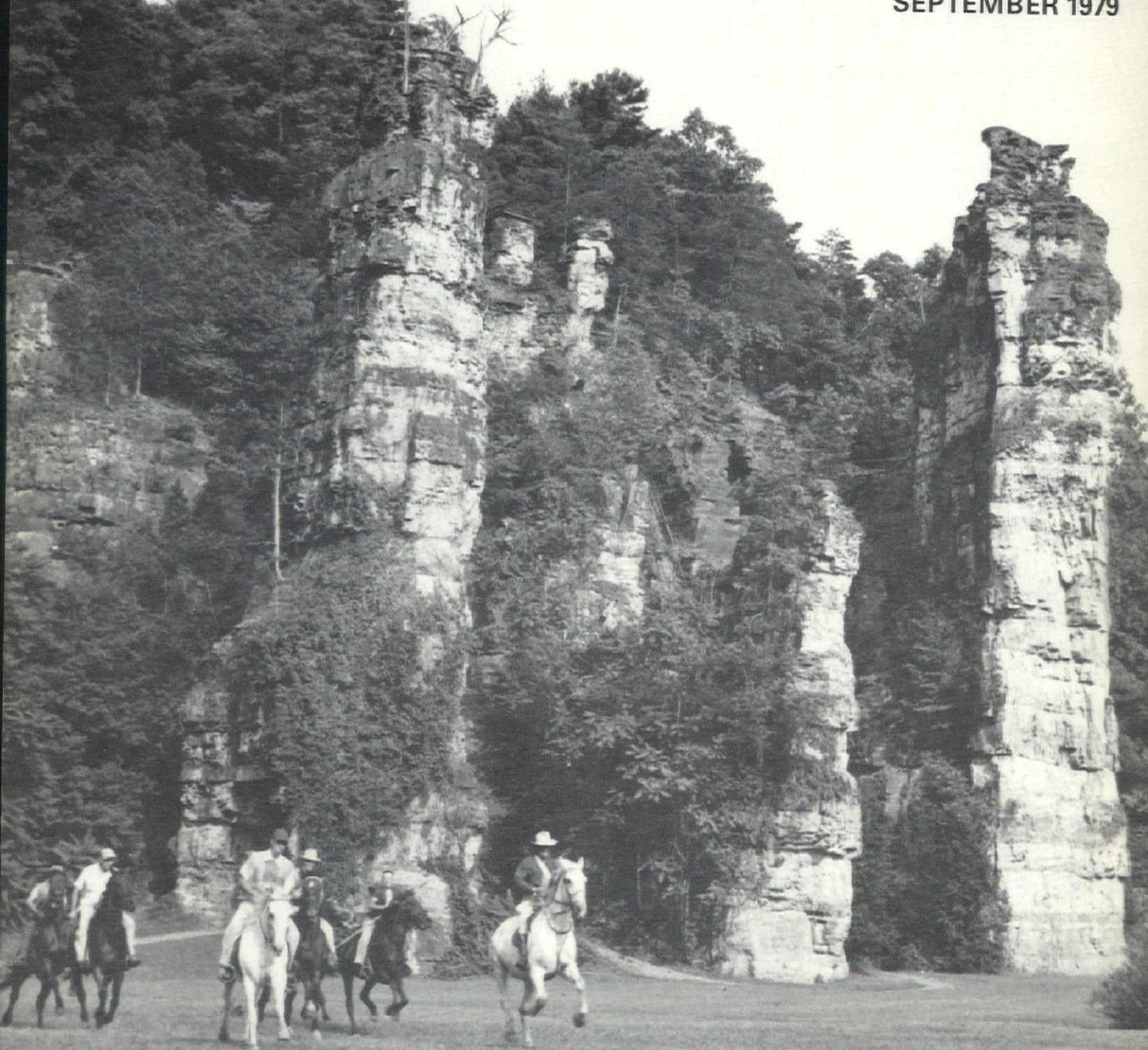


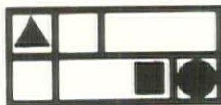
VIRGINIA RECORD

SEPTEMBER 1979



Featuring:
FALL AND WINTER IN VIRGINIA
and
CONSULTING ENGINEERS COUNCIL
OF VIRGINIA

GUEST



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FOUNDED 1878
TO TELL THE VIRGINIA STORY



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September 1979

CLIFFORD DOWDEY, *Editor*
(1904 - 1979)

JOE H. YOUNG
Executive Editor

ANITA R. BRENNAN
Associate Editor



VIRGINIA RECORD is an independent publication cooperating with all organizations that have for their objectives the welfare and development of Virginia. While this publication carries authoritative articles and features on statewide and local industries, business, governmental and civic organizations they are in no other respect responsible for the contents hereof.

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ON OUR COVER is one of the state's natural wonders — Natural Chimneys, at Mt. Solon, in Augusta County.

Lane Structural Plate makes bridge replacement easy

Easy to design, install and maintain

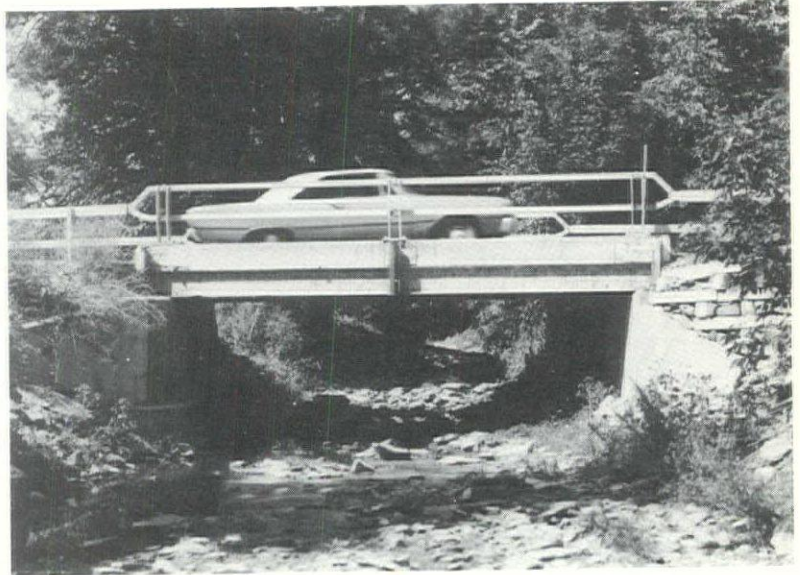
Lane structural plate bridges are made from custom-formed sections of steel plate. The plate is corrugated for extra strength and punched for easy in-field assembly. Then, each plate is hot-dip galvanized for long service life.

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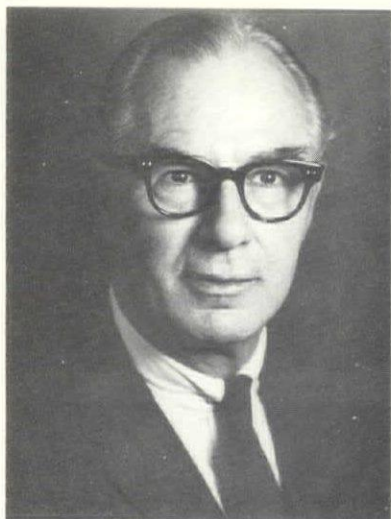


After



This installation is located along Route 328 near Elmira Heights in Chemung County, N.Y. The old bridge was removed and a new Lane structural plate bridge installed and backfilled within a week.





Clifford Dowdey

1904 - 1979

Mr. Dowdey, at the time of his death, had completed a number of essays which have not as yet been published. Through this "legacy" we will be able to continue to present this column every other month, through March of 1980.

The Cruel Delusion

I IN RECENTLY re-reading THE CAMBRIDGE MIND — a selection of essays and criticisms from the *Cambridge Review*, published over the ninety years from 1879 to 1969 — I was struck by a sentence which somehow passed me by on the first reading seven years ago. In the review of H. L. Marrou's A HISTORY OF EDUCATION IN ANTIQUITY, published in 1956, the critic summarized Marrou's theme first by declaring that "education is an unhappy and imprecise word."

"The subject of the book may be more accurately defined ... as the history of ancient 'culture, its norms and values, its variations and transformation according to the shifting social relationships of antiquity, the institutions and techniques by which it was fostered.'"

Here the critic points out that Marrou restricts "culture" to its "specifically French sense, the *personal* form of the life of the spirit ...". Then, after some generalities, we get to the heart of the matter. "The ancient world produced 'only one coherent and clearly defined educational system,' and that system was not achieved until a 'comparatively later date, which I place after the decisive contributions of the two great educators,' Plato and Isocrates." Then here comes the sentence that shook me the second time around: "This need not surprise us ... *A civilization must attain its proper form before it can create the education which will reflect it.*" (Italic added.)

From here, as the critic's arguments grow somewhat arcane, he quotes Marrou as stating that "education is not an element that can be detached from one civilization and borrowed by another. It is the concentrated epitome of a culture ..."

We can at this point take leave of the critic's scholarly analyses of the culture which was a prelude, after some digressions, to the general Western culture which formed a significant element in the heritage of the early—or "old"—America. This general Western culture in Europe varied in times and places, and "in transformation according to the shifting social relationships of 'the Modern Western World, and 'the institutions and techniques by which' this Modern Western World "was fostered."

We lack both the space and the background, as well as the inclination, to trace the shifts in the European countries: it seems sufficient to state that with and between the two world wars the European parts of the Western World suffered various material and institutional traumas which diverted them from the ancient heritage that had formed a basic part of their general culture. However, in the major countries as in the ancient world, there had existed until these traumatic wars, social-economic systems of vast inequality in wealth, privilege, prestige and opportunity. This was particularly evident in England, truly our Mother Country.

In our "old America," which endured until the Civil War, the democratized United States, with its articulated ideals, may be said to have democratized inequities — *but* without the rigidified class structures of England. Except for the black slaves, who worked the large agricultural operations (and some artisans) in the Southern states, and the debased working poor employed in mills and factories and in labor forces on the new railroads and mines, in the Northeastern states (and later in the West), opportunity was open for any man who could seize it.

Among the most prominent of those who seized opportunity by the horns was John D. Rockefeller (1839-1917). Son of an itinerant pedler from New York State, he started work at 16 as a clerk in a small produce firm in Cleveland, where he had attended high school. Seven years later (in the second year of the Civil War) he entered the oil business, to which he brought an order and efficiency which resulted in the powerful Standard Oil Company and made him one of the very richest men in 19th Century America.

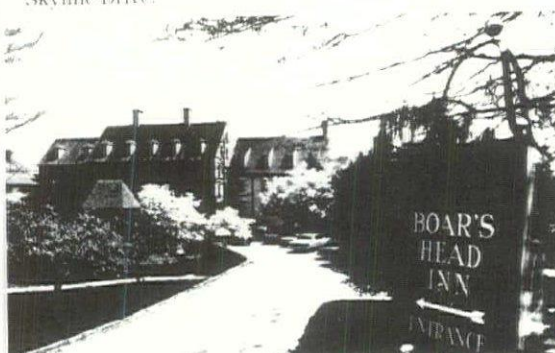
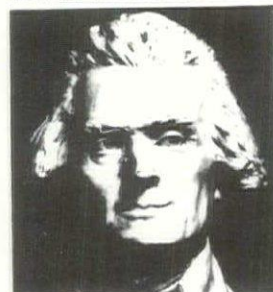
Another early multi-millionaire was Andrew Carnegie. Born in Scotland of a working-class family who brought him to America at the age of 5 in 1840, Carnegie's rise was almost as meteoric as Rockefeller's.

(Continued on page 43)

Horses, History & Hospitality



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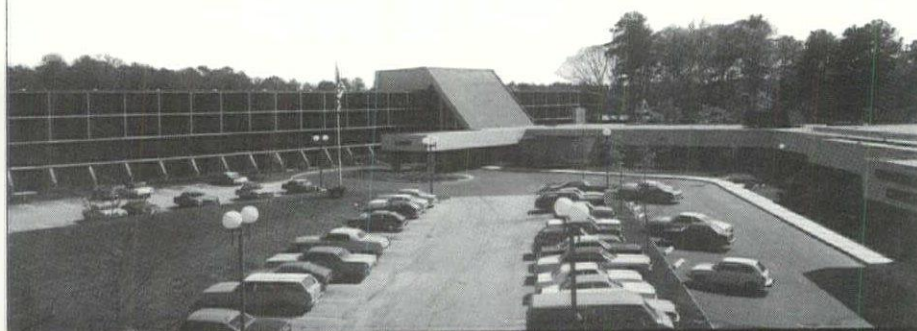


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VIRGINIA PILOT ASSOCIATION

NORFOLK — NEWPORT NEWS

R. L. COUNSELMAN JR., President



FALL AND WINTER IN VIRGINIA

(Information Courtesy of the Virginia State Chamber of Commerce - Travel Development Department, with additions from localities.)



October

Richmond

October 6 thru 13 NATIONAL TOBACCO FESTIVAL

Grand Illuminated Parade - Friday, October 12, Tobacco Bowl Football Game - Saturday, Oct. 13 (Duke Univ. vs. Univ. of Richmond) Various events scheduled in conjunction with Tobacco Festival. Roger J. Bottorff, Managing Director National Tobacco Festival, Inc., 3212 Cutshaw Ave., Suite 302, Richmond, VA 23230 804-358-1979.

Alexandria

October 6 AUTUMN VOLKSLAUF AND OKTOBERFEST

A 6.2 mile people's run for joggers of all ages begins at City Hall, Cameron and Royal St. 9 a.m. German food and music in Gadsby's Tavern Courtyard, 138 N. Royal St. Registration begins at 8 a.m. 50¢ entry fee. (703) 755-8800.

Williamsburg

October 1-31 CARTER'S GROVE PLANTATION

Open daily 9 a.m. to 5 p.m. This historic mansion, called by Samuel Chamberlain "the most beautiful house in America," is located six miles east of Williamsburg on Route 60. Bus service available. Adults \$2, Children \$1, Children under 6 free. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, VA 23185. Phone: (1800) 446-8956 (nationwide) or 1-800-582-8976 (in Virginia).

Williamsburg

October 2, 6, 9, 13, 16, 20, 23, 27, 30 BRUTON PARISH CHURCH BY CANDLELIGHT

Each Tuesday and Saturday, recital at 8 p.m. Bruton Parish Church - one of America's oldest Episcopal churches, in continuous use since 1715, is open daily to visitors. Free admission. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, VA 23185. Phone: (1800) 446-8956 (nationwide) or 1-800-582-8976 (in Virginia).

Abingdon

October 3-6 BURLEY TOBACCO FESTIVAL & FARM SHOW

An annual celebration of Burley Tobacco Harvest in Washington County. Country Music, exhibits, contests, Old Macdonalds Farm, Parade (Saturday morning), and other fall events. 10 a.m. - 10 p.m. Daily. preschool - free; age 6-12 - \$1.00; Adult - \$2.00. Charles Meade, c/o Johnson Building Supplies, Bristol Highway, Abingdon, VA 24210 703-628-2271.

Stuart

October 4-7 PATRICK COUNTY HARVEST FESTIVAL

30 different events scheduled over a 4 day period, including Hayloft Jamboree, Flea Market, Pro-Am. Celebrity Golf Tournament, Four Wheel Drive Competition, Luau, Tobacco-Spitting Contest, etc. Mrs. Dorris W. Cogar Executive Director Patrick County Chamber of Commerce, P.O. Box 577 Stuart, VA 24171 1-703-694-6012.

Williamsburg

October 4, 11, 18, 25 CANDLELIGHT CONCERTS IN THE GOVERNOR'S PALACE

Each Thursday, 8:45 p.m. featuring 18th-century music played by a costumed string ensemble. \$6.00 per person. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Virginia 23185. Phone: (1800) 446-8956 (nationwide) or 1-800-582-8976 (in Virginia).

Petersburg

Oct. 5-7 3rd ANNUAL NOSTALGIAFEST

Big Bands, name entertainers, festivals, etc., relive the near and distant past. Hours of operation to be announced. Director of Tourism 22-33 West Tabb Street, Petersburg, VA 23803 804-733-7690.

Fredericksburg

October 6 FREDERICKSBURG DOG MART

Commemorating colonial trade marts with local Indians, events include dances by the Pamunkey Indians, Old Fiddlers Contest, Turkey Calling, Fox Horn Blowing, Sr. Citizens Rhythm Band, Hog Calling, Dog Show and Auction. All events begin with the Dog Mart Parade at 9 a.m. in the downtown historic district and continue at the Agricultural Fairgrounds. 9 a.m.-4 p.m. Free. Mrs. Jo Love Willis, Director, Bicentennial Visitor Center, 706 Caroline St., Fredericksburg, Va. 22401. 703-373-9391.

Waterford

October 5-7 WATERFORD HOMES TOUR AND CRAFTS EXHIBIT

18th Century Quaker village open to the public for tours of privately owned historic homes, craft demonstrations. Hot lunches, snacks available. Ticket price includes parking, admission to all tour homes and exhibit buildings. 10 a.m.-5 p.m. daily, \$3 per person, children under 12 free. Constance Chamberlin, Waterford Foundation, Inc., Waterford, Va. 22190. 703-882-3018.

Chincoteague

October 7 OYSTER FESTIVAL

Oysters cooked in a variety of ways, served with cole slaw, potato salad, hamburgers and hot dogs for the kiddies. 1-4 p.m. \$10. per ticket, \$5. for children. Chincoteague Chamber of Commerce, Chincoteague, Va. 23336. 804-336-6161.

Williamsburg

October 6, 13, 20, 27 CAPITOL BY CANDLELIGHT

Evening tours every Saturday from 8-10 p.m. through one of colonial America's most important buildings. Cost included in the General Admission ticket. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia).

Newport News

October 6 & 7 6th ANNUAL NEWPORT NEWS FESTIVAL OF FOLKLIFE

A festival of folklife featuring over 60 Tidewater craftsmen whose traditional skills have been handed down through generations. Also participating in the festival will be musicians and dancers who represent a cultural community from earlier eras which are a part of the area's heritage. Newport News Park (Rt. 143 at Fort Eustis Blvd.) 10 a.m.-6 p.m. daily. Parking admission \$1 per car. Mrs. Lucy T. Tekinder, Division of Recreation and Parks, 2400 Washington Ave., Newport News, Va. 23607. 804-247-8451 or 877-5211.

Waynesboro

October 6 & 7 WAYNESBORO FALL FOLIAGE FESTIVAL ART SHOW

Outdoor art show (in case of rain, held in Kate Collins Jr. H.S.) held along main business thoroughfares of Waynesboro, Main St. and Wayne Ave. Features approximately 175 painters, potters, print makers, photographers, and sculptors from throughout Virginia and a dozen other states. Oct. 6 - 11 a.m. - 5 p.m.; Oct. 7 - noon-5 p.m. Free. Mrs. Jean Mehler, Chairman, P.O. Box 626, Waynesboro, Va. 22980. 703-942-8513 or 8491.

Luray

October 6 & 7 PAGE COUNTY HERITAGE FESTIVAL

Arts and crafts, displays, demonstrations and sales, and old-time music. Held at Page Valley Fairgrounds. Oct. 6 - 10 a.m.-7 p.m.; Oct. 7 - 12-6 p.m. Alice L. Brien, Executive Director, Luray Chamber of Commerce, 46 E. Main St., Luray, Va. 22835. 703-743-3915.

Alexandria

October 6 - Feb. 3 HISTORICAL EXHIBIT

of defenses of Washington. Ft. Ward Museum, 4301 W. Braddock Rd. 9-5 Mon.-Sat.; 12-5 Sun. Free (703) 750-6425.

Alexandria

October 6 - November 24 ARCHITECTS IN ALEXANDRIA - 1750-1900

Exhibit examines growth of the architecture profession. Carlyle House, 121 N. Fairfax St. \$1 adults; 50¢ children. 10-5 Mon.-Sat.; noon-5 Sun. No. Va. Regional Park Authority, sponsor. (703) 549-2997.

Williamsburg

October 7, 14, 21, 28 MUSIC AT THE CAPITOL

A company of musicians presents the songs and music of the 18th century. 8:30 p.m. \$3.00 per person. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia).

Leesburg

October 7 ANTIQUE SHOW AND SALE

Four blocks of downtown Leesburg used for antique dealers to set up and display. German band circulates the entire day. 9 a.m.-5 p.m. Free. Village Square Antiques, 4808 Auburn Ave., Bethesda, Md. 20014. 301-654-1102.

Fredericksburg

October 7 & 8 CREATIVE STITCHERY

A needlework exhibit featuring needlework by living persons for competition including crewel, needlepoint, bargello, needlework rugs, quilts, embroidery, drawn work, smocking, original designs and kits. Located at the Fredericksburg Savings & Loan, 400 George St., Fredericksburg. Oct. 7 - 12-8 p.m.; Oct. 8 - 9 a.m. - 3 p.m. \$1.00 Mrs. Jo Love Willis, Director, Bicentennial Visitor Center, 706 Caroline St., Fredericksburg, Va. 22401. 703-373-9391.

Alexandria

October 11-13 TWENTY-FIRST ALEXANDRIA FORUM

National authorities lecture on history, antiques, historic restoration/preservation. Banquet, entertainment. Pre-registration required. Alexandria Association, sponsor. Write: Alexandria Forum, Box 626, Alexandria, 22313. (703) 683-1852.

Elon

October 12, 13, 14 AMHERST COUNTY APPLE HARVEST ARTS AND CRAFTS FESTIVAL

Beautiful setting at the foot of Tobacco Row Mountain, heart of the apple orchards area. The festival emphasizes apple products and presents more than 2500 exhibits and 40 craftsmen. Five miles west of Route 29 on State Route 130. Oct. 12 - noon - 7 p.m.; Oct. 13 - 9 a.m. - 5 p.m.; Oct. 14 - 1-5 p.m. Free. Mrs. Helen C. Feagans, Extension Agent, Amherst, Va. 24521.

Charlottesville
October 12, 13, 14 YOUNG COLLECTORS ANTIQUE SHOW AND SALE

18th and early 19th century quality collection with an eye toward young collectors. At Ash Lawn on Route 795. Hours and cost to be announced. Carolyn Holmes, Ash Lawn, Charlottesville, Va. 22901. 804-293-9539.

Franklin

October 12 FIFTH ANNUAL CRAFT SHOW AND SALE

Area craftsmen display and sell their crafts. Approximately forty craftsmen are involved. 10 a.m. - 5 p.m. \$1.00 Ms. Lazar, 216 Woodland Dr., Franklin, Va. 23851. 804-562-2361

Alexandria

October 13-14 CELEBRATION OF LAFAYETTE'S VISIT

to Alexandria in 1824 with special costumed tours of Lee Boyhood Home, 607 Oronoco St. Refreshments served. 7-9 Sat.; 1-4 Sun. \$1.50 adults; 75¢ children. (703) 548-8454.

Appomattox

October 13 & 14 SEVENTH ANNUAL HISTORIC APPOMATTOX RAILROAD FESTIVAL

A two-day festival centered in downtown Appomattox. Events include a kick-off parade, arts and craft show and sale, continuous live music, "down-at-the-depot country cookin'", recreational games, beard-growing and dress contests, railroading and historical exhibits, and free "mini-train" rides for children. Oct. 13 - 10 a.m. - 5 p.m.; Oct. 14 - 1-5 p.m. Free. Mrs. Carolyn Thompson, Appomattox, Va. 24522. 804-352-7304.

Norfolk

October 13 33rd ANNUAL KHEVIE SHRINE-OYSTER BOWL FOOTBALL GAME

Played for the benefit of crippled and burned children treated in 22 Shriners Hospitals throughout the U.S., Canada and Mexico. Game played at Foreman Field, Old Dominion University. Game starts at 1:30 p.m. Teams participating - Navy and William & Mary. Downtown parade starts at 9 a.m. \$12.50 (between 30 yd. lines) \$7. all other seats. D.E. Berry, Ex. Secty., P.O. Box 11063, Norfolk, Va. 24517. 804-622-1142

Alberta

October 13 THE OLE BRAUNSCHWEIG-FEST

Brunswick County Festival. Food, history, farming and industry, arts and crafts, music, events and contests, entertainment and exhibits. Brunswick and lamb stews cooked on site; barbeque, fresh baked goods and other concessions available. Held at the Southside Virginia Community College campus in Alberta. All day. Tickets may be ordered in advance. Small admission. Beverley Brewer, Brunswick County Festival Committee, P.O. Box 13, Lawrenceville, Va. 23868. 804-648-4164 or 949-7296

Front Royal

October 13 & 14 9th ANNUAL FESTIVAL OF LEAVES

Demonstrations and exhibits in arts and crafts, art show, colonial bazaar, book sale, store window displays, creative drama. Food available. Oct 13 - 10 a.m.-5 p.m.; Oct 14 - 12 noon-5 p.m. Chamber of Commerce, P.O. Box 568, Front Royal, Va. 22630. 703-635-3185

Rural Retreat

October 13 RURAL RETREAT'S LORD'S ACRE SALE

Parade, 10 a.m. Livestock and entries. Various craft items for sale. Held at Rural Retreat High School. Free. Mrs. Betty H. Umberger, 885 N. Eighth St., Wytheville, Va. 703-228-3720 or 228-2241

Arlington

October 13 HISTORIC ARLINGTON DAY HOUSE TOUR

The annual tour will include five historic Arlington buildings, private homes and public buildings. \$3.50 adult; \$1, student. Ruth P. Rose, 930 N. Livingston St., Arlington, Va. 22205. 703-532-1453

Lorton

October 14 THE FAIRFAX HUNT

Traditional blessing of the hounds and passing of the Stirrup Cup among riders and spectators. There will also be demonstrations of riding and jumping by members of the Hunt. Held at Gunston hall Plantation. Grounds open 9:30 a.m.-5 p.m. The Fairfax Hunt will be at 4:30 p.m. Entrance fee \$2. adults; children 6-15 yrs. \$50. Mrs. Louise Stockdale, Manager, Gunston Hall, Lorton, Va. 22079. 703-550-9220

Broadway-Timberville

October 18-27 BROADWAY-TIMBERVILLE FALL FESTIVAL

Events include art and craft shows, barbecues, pancake suppers, demonstrations of various types, music. Hours vary. Some events are free, others have various rates. Hilda W. Biller, Exec. Dir., P.O. Box 91, Broadway, Va. 22815. 703-896-7413 or 703-896-7291

Alexandria

October 20 "SHE HAW"

Concert with Alexandria Sweet Adelines. Charles Barrett School, Martha Custis Dr. 8 p.m. Admission, (703) 765-6013.

Yorktown

October 19-21 "YORKTOWN DAY AND A CELEBRATION OF VICTORY"

Featuring reenactments, tactical demonstrations and skirmishes by recreated 18th-century regiments at the Yorktown Victory Center. 9 a.m.-5 p.m. Free. Mrs. Bettie J. Matthews, Information officer, Yorktown Victory Center, P.O. Box 1976, Yorktown, Va. 23690. 804-887-1776

Williamsburg

October 20 WILLIAM & MARY HOMECOMING FOOTBALL GAME

Homecoming parade, Duke of Gloucester St., 10 a.m. Alumni Office, College of William & Mary, Williamsburg, Va. 23185.

Aldie

October 20 ALDIE HARVEST FESTIVAL

Christmas bazaar, large display of country produce, local craft work, antique displays for viewing and buying, autumn flower and dried arrangements, chicken barbeque. 10 a.m.-5 p.m. Free. Sue Ketcham, Aldie, Va. 22001. 703-327-6913

Morven Park

October 21 MORVEN PARK CARRIAGE DRIVE

Held annually, the Morven Park Carriage Drive draws carriage driving enthusiasts from all parts of the eastern seacoast. Various competitions test the abilities of the Whip (driver) and the horses over a six mile marathon course, an obstacle drive and dressage test. Near Leesburg. 10 a.m.-5 p.m. Adults \$1.75, children \$.75. E.A. Maurer, Jr., Morven Park, Leesburg, Va. 703-777-2414

Hampton

October 24 THE TRINIDAD FOLK FESTIVAL

Senior Citizens, high school students and college students all one-half of the regular admission fees. 8:15 p.m. Ogden Hall. \$5.00. Mr. Dowling M. Bolton, The Musical Arts Series, Hampton Institute. 804-727-5457

Norfolk

October 26, 28, 31, November 2, 4 PUCCINI'S LA BOHEME

This tender love story of four young Bohemians in 19th Century Paris is felt by many to be Puccini's masterpiece. Sunday performances are at 2:30; all others 8:00. Individual tickets from \$7.50-\$12.50; season tickets can be purchased at substantial savings. Pearl Taylor, Virginia Opera Association, 261 W. Bute St., Norfolk, Va. 23510. 804-623-1223

Ferrum

October 27 BLUE RIDGE FOLKLIFE FESTIVAL

Held the 4th Saturday in October each fall on the Ferrum College campus, the Festival provides demonstrations of early mountain crafts and skills by traditional craftsmen and musicians. To be seen and experienced are: various indoor and outdoor crafts; food preparation and preservation; farm equipment; a steam and gas show; a horse and pony pull; and displays of the region's car culture. Blue Ridge Institute, Ferrum College, Ferrum, Va. 24098. 703-365-2121, Ext. 107.

Federicksburg

October 27 & 28 11th ANNUAL ANTIQUE SPECIALTY SHOW

A specialty show featuring Civil War relics, antiques, furniture, glassware, curios, and coins to buy, sell or trade. Located at the National Guard Armory, Rt. 1 bypass. Fredericksburg, Oct 27 - 10 a.m.-8 p.m.; Oct. 28 - 10 a.m.-4 p.m. \$1. ticket good for both days. Mrs. Jo Love Willis, Director, Bicentennial Visitor Center, 706 Caroline St., Fredericksburg, Va. 22401. 703-373-9391

Charlottesville

Mid-October COURT DAYS IN OLD CHARLOTTESVILLE

Crafts festival with demonstrations, music and dancing. Held at Court Square and in downtown mall. Hours to be announced. Donna Massey, DCI, 416 E. Main St., Charlottesville, Va. 22901. 804-296-8548

Charlottesville

October LEE-JACKSON BIRTHDAY CELEBRATION

Gala event. Dinner at historic Farmington Club House, designed by Jefferson. Open to public. Admission charge. Write for invitation to Lee-Jackson Memorial, Inc., 405 Citizens Commonwealth Center, Preston Ave. Charlottesville, Va. 22901. William P. Moore, Jr., President, Lee-Jackson Memorial, Inc. 804-977-1861

Meifa

First Saturday in October. AUTUMN LAWN SALE AND HARVEST FEAST

Handmade goods, produce, flea market. 10 a.m.-5 p.m. Feast - 12 noon-3 p.m. Free for the sale, \$6.00 per ticket for the feast. Eastern Shore of Virginia Chamber of Commerce, P.O. Box 147, Accomac, Va. 23301. 804-787-2460.

Middleburg

October VIRGINIA FALL RACE MEETING

Five horse races consisting of a flat race, three steeplechase and a timber race. Many of the nation's outstanding jumpers participating. Considered to be one of the finest hunt meet courses in the country. At Glenwood Park. Post time 2:30 p.m. General admission \$3.00. Subscription, boxes, bleachers and reserved parking available. Mrs. A.C. Randolph, Oakley Farm, Upperville, Va. 22176. 703-592-3777.

Williamsburg

October 11th ANNUAL "OCCASION FOR THE ARTS"

Merchants Square. Noon till dusk. Festival of performing arts. Fine arts and crafts. Date not firm, probably Oct. 7. Free. An Occasion for the Arts, Inc., P.O. Box 363, Williamsburg, Va. 23185.

Pearisburg

First or Second Saturday LORDS ACRE FELLOWSHIP OF GILES COUNTY ANNUAL SALE

On a Saturday in early October on the grounds of the Giles High School, members of 23 county churches gather to offer for sale handmade craft items (quilts, needlework, woodcraft, etc.), homemade apple butter, jams, jellies, baked goods, sorghum and homegrown produce. 10 a.m. until sold out. Free. Mrs. Carson Hodge, Secretary, Lords Acre Fellowship, Wilburn Valley Rd., Pearisburg, Va. 24134. 703-921-3686



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November

Leesburg

November 1-5 CHRISTMAS AT OATLANDS

Oatlands House, built in the early 1800's for George Carter and given to the National Trust for Historic Preservation in 1965 as a memorial to its late owners, Mr. and Mrs. William Corcoran Eustis of Washington, D.C., is decorated according to the Carter family memoirs of the 1880's. Refreshments are served, and the 13 museum rooms of the mansion are open. 10 a.m.-5 p.m. Nov. 1, 2, 3 and 5; 1-5 p.m. Nov. 4. \$2.50 adults; \$1.50 senior citizens and students; children under 6 free. Miriam G. Rabb, Oatlands Administrator, Rt. 2, Box 352, Leesburg, Va. 22075. 703-777-3174

Williamsburg

November 1-30 CARTER'S GROVE PLANTATION

Open daily 9 a.m.-5 p.m. This historic mansion, called by Samuel Chamberlain "the most beautiful house in America," is located six miles east of Williamsburg on Route 60. Bus service available. Adults \$2, children \$1, children under 6 free. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Williamsburg

November 1, 22 CANDLELIGHT CONCERT IN THE GOVERNOR'S PALACE

East Thursday, 8:45 p.m., featuring 18th-century music played by a costumed string ensemble. \$6.00 per person. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Lynchburg

November 2 LYNCHBURG EXCHANGE CLUB ANNUAL PANCAKE JAMBOREE

All day, all city jamboree feast with pancakes, syrup, sausage in a festival environment. 6 a.m.-8 p.m. \$1.50 per person. Ralph E. Frank, 409 Pine Drive, Lynchburg, Va. 24502. 804-846-6506

Onancock

November 2-4 TWENTY-SIXTH FALL ANTIQUES SHOW AND SALE

Dealers from Eastern United States offer antiques for sale. Lunch served daily, Fri. - noon-9 p.m., Sat. - 10 a.m.-9 p.m.; Sun. noon-6 p.m. Sponsored by Northampton-Accomack Hospital Auxiliary. Mrs. Wayne Browning, Davis Wharf, Va. 23345. 804-442-6936

Williamsburg

November 2, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28, 30 EVENING LANTHORN TOURS

of selected craft shops leave the Courthouse of 1770 each Monday, Wednesday and Friday at 8:30 p.m. \$2. per person. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Alexandria

November 3 WASHINGTON'S REVIEW OF THE TROOPS

Colonial regiments reenact George Washington's 1798 military review in front of Gadsby's Tavern, 134 N. Royal St. 11-noon. Free. Gadsby's Tavern Museum will be open 10-5 with half-price admission for adults (50¢) and free admission for children. Cider and cookies sold from 9-11:30 a.m. in front of museum. (703) 549-0205.

Williamsburg

November 3, 10, 17, 24 CAPITOL BY CANDLELIGHT

Evening tours every Saturday, 8-10 p.m. through one of colonial America's most important buildings. Cost included in the General Admission ticket. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Williamsburg

November 3, 6, 10, 13, 17, 20, 24, 27 BRUTON PARISH CHURCH BY CANDLELIGHT

Each Tuesday and Saturday, organ recital at 8 p.m. Bruton Parish Church, one of America's oldest Episcopal churches, in continuous use since 1715, is open daily to visitors. Free. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Charles City

November 4 VIRGINIA THANKSGIVING FESTIVAL

Berkeley Plantation, Re-enactment of first Thanksgiving celebration in the colonies. Virginia Thanksgiving Festival, Box 1090, Richmond, Virginia 23219

Arlington National Cemetery

November 4 1979 MARINE CORPS MARATHON

The 1979 Marine Corps Marathon promises to be one of the largest running events in Washington area history. The race will begin at the Marine Corps War Memorial, just north of Arlington National

Cemetery, will sweep around the Nation's Capital and nearby Virginia in the midst of national landmarks, and will finish at the starting point. 9 a.m.-6 p.m. \$5.00 entry fee per individual runner. Marine Corps Marathon Office, Marine Barracks, 8th and I Sts., S.E., Washington, D.C. 20390. 202-433-3238 or 433-3239

Alexandria

November 9-11 ANTIQUE SHOW AND SALE

Nationally known antique dealers show and sell. Old Colony Motor Lodge, N. Washington and 1st St. 11-9 Fri.-Sat.; noon-6 Sun. John Alexander Chapter, NSDAR, sponsor. \$2.50. (703) 836-3681.

Alexandria

November 10-11 FIBER SPINNING DEMONSTRATION

Carlyle House, 121 N. Fairfax St. 10-5 Sat.; noon-5 Sun. No. Va. Regional Park Authority, sponsor. Free. (703) 549-2997.

Roanoke

November 16-18 9th ANNUAL CRAFTS FESTIVAL

Doucet Guild, Roanoke Civic Center Exhibit Hall. Fri. & Sat. - 10 a.m.-9 p.m.; Sun. - 12-5 p.m. Roanoke Valley Arts Council, P.O. Box 12745, Roanoke, Va. 24028. 703-342-1566.

Alexandria

November 22 TURKEY TROT

This fifth annual five mile Turkey Trot roadrace takes place in the Arlandria Section of Alexandria. Prizes awarded to winners. 9 a.m. Potomac West Trade Assoc. and D.C. Roadrunners Club, sponsors. Small entry fee. (703) 549-1000.

Cismont

November 22 BLESSING OF THE HOUNDS

Colorful ceremony of the Blessing of the Hounds by the clergy. Huntsmen, hounds, bugles and baying, all present. After ceremony visitors follow the mounted hunt participants across the fields to Kinloch for the commencement of hunting season. Begins at Old Grace Church. Hours to be announced. Grace Episcopal Church, Cismont, Va. 804-293-3549

Charlottesville

November 22-25 THANKSGIVING HUNT WEEKEND

In the heart of Virginia's hunt country attend the "blessing of hounds" on Thanksgiving day, and a foot hunt. Evening entertainment, traditional Thanksgiving feast. At the Boar's Head Inn. Write for rates. Ed Holliday, P.O. Box 5185, Charlottesville, Va. 22903. 804-296-2181

Williamsburg

November 22 TRADITIONAL FEASTING AT KING'S ARMS, CAMPBELL'S AND CHOWNING'S

18th-century taverns of Williamsburg, as well as at the Williamsburg Inn, Lodge, Cascades Restaurant and Motor House Cafeteria. Seatings from noon until 8:45 p.m. Write for prices. Dining Reservation Office, Colonial Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Williamsburg

November 23 MUSIC AT THE CAPITOL

A company of musicians presents songs and music of colonial days at 8 and 9:15 p.m. \$3.00 per person. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Williamsburg

November 24 THANKSGIVING REVIEW

A special muster honoring the season on the Market Square at 10 a.m. Free. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Luray

November 24 ANNUAL MERCHANTS CHRISTMAS PARADE

2 p.m. Free. Alice L. Brien, Executive Director, Luray Chamber of Commerce, 46 E. Main St., Luray, Va. 22835. 703-743-3915.

Chincoteague

Thanksgiving Week WATERFOWL WEEK

An "open house" program held annually during a period of peak water-fowl populations. Service road open to vehicular traffic at this time only. Includes weekends before and after the week of Thanksgiving. 4 a.m.-10 p.m. daily. Free. Gerald E. Franz, Chincoteague National Wildlife Refuge, P.O. Box 62, Chincoteague, Va. 23336. 804-336-6122

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December

Onancock

November TWENTY-SIXTH ANNUAL FALL ANTIQUES SHOW AND SALE

Outstanding dealers featuring fine collections of furniture, china, glass, silver, jewelry, porcelains, art objects and Oriental rugs. Dates to be announced. At the National Guard Armory. Fri. - noon-9 p.m.; Sat. - 11 a.m.-9 p.m.; Sun. - noon-6 p.m. General admission \$1.50, advance tickets \$1.25. Mrs. Francis A. Shelton, Happy Union, Nassawadox, Va. 23413. 804-442-6339

Assateague Island

Thanksgiving Week GOOSE WEEK AT CHINCOTEAGUE NATIONAL WILDLIFE REFUGE

Canada and snow geese come into the refuge by the thousands. Nature trails are opened, exhibits, birdwatchers paradise. All sorts of planned events pertaining to nature planned. Daily. Free. Chincoteague National Wildlife Refuge, J.C. Appel, Chincoteague, Va. 23336. 804-336-6122

Onancock

December 1 CHRISTMAS SALE OF ARTS & CRAFTS

Arts and crafts on sale. Exhibits of local crafts. Many exhibits in time for Christmas copying and giving. Held at the Armory, 10 a.m.-5 p.m. Free. Mrs. Allison Bolm, Eastern Shore Art & Craft Guild, Parksley, Va. 23421. 804-665-7355

Alexandria

December 1 SCOTTISH CHRISTMAS WALK

British Ambassador serves as patron. City's Scottish founders are saluted by bagpipe bands, Scottish Clan Chieftans and visitors in the Old Town section, Antiques, arts and crafts, tours. 10 a.m.-4 p.m. Free. Alexandria Community Y, 602 Cameron St., Alexandria, Va. 22314. 703-549-0111

Alexandria

December 1 MUSIC AND DANCING

at Gadsby's Tavern, 134 N. Royal St. Choral music at 1 p.m. Scottish Country Dancing performed by the Royal Scottish Country Dance Society, No. Va. Branch. 2 p.m. \$1. (703) 750-6565

Williamsburg

December 1, 8, 15, 22, 29 CAPITOL BY CANDLELIGHT

Evening tours every Saturday from 8-10 p.m. through one of colonial America's most important buildings. Cost included in the General Admission ticket. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Williamsburg

December 1, 2 ANNUAL CHRISTMAS HOMES TOUR -

Private residences open to the public. 2-9 p.m. Sat.; 1-7 p.m. Sun. \$5, \$1.50 per home. Children under 12 free if with adult. Green Spring Garden Club, 713 Goodwin St., Williamsburg, Va. 23185.

Williamsburg

December 1, 8, 15, 22, 29 BRUTON PARISH CHURCH BY CANDLELIGHT

Every Saturday, organ recital at 8 p.m. Bruton Parish Church, one of America's oldest Episcopal churches, in continuous use since 1715, open daily to visitors. Free. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Bedford

December 3 CHRISTMAS PARADE

A Christmas parade through the downtown area. 2-3 p.m. Free. Allen Jager, Bedford County Chamber of Commerce, 301 E. Main St., Bedford, Va. 24523. 703-586-9401

Alexandria

December 7, 9, 15, 16 CAROLS BY CANDLELIGHT

Carolers perform in the candlelighted, decorated halls of Woodlawn Plantation. Early 18th century style refreshments served. Boxwood and gifts sold. December 7 and 15: 7-10 p.m.; Dec. 9 and 16: 3-6 p.m. \$2.50 adults; \$1.25 children under 16. (703) 780-3118

Alexandria

December 8-9 CHRISTMAS CANDLELIGHT TOUR

of historic Gadsby's Tavern, Carlyle House, Robert E. Lee Boyhood Home and Lee Fendall House featuring 18th century chamber music, caroling, wassail bowl, story telling and colonial refreshments. 7-9:30 p.m. \$5 adults, \$1.25 children ages 6-18. (703) 549-0205

Fredericksburg

December 9 CHRISTMAS CANDLELIGHT WALKING TOUR

Costumed hostesses, horse drawn carriage, Christmas greens, candlelit homes and walkways welcome visitors to Fredericksburg's oldest and most elegant neighborhoods. Tour includes light refreshments and music in private homes and public buildings. 2-8 p.m. \$6.00 adults, \$2.50 children. Mrs. Jo Love Willis, Director, Bicentennial Visitor Center, 706 Caroline St., Fredericksburg, Va. 22401. 703-373-9391

Alexandria

December 11-19 CHRISTMAS CONCERTS.

Market Square, King and Fairfax St. 12-15 p.m. Alexandria Dept. of Recreation, sponsor. Free. (703) 750-6325

Yorktown

December 13 CHRISTMAS IN YORKTOWN

The lighting of Virginia's Christmas tree. The tree is decorated with more than a thousand hand crafted ornaments. Caroling, light refreshments and an appearance by Santa are scheduled at the Yorktown Victory Center. 5:30-8 p.m. Free. Mrs. Bettie J. Matthews, Information Officer, Yorktown Victory Center, P.O. Box 1976, Yorktown, Va. 23690. 804-887-1776

Alexandria

December 14 CAROLS BY CANDLELIGHT.

Carolers perform in the decorated candlelighted halls of Carlyle House, 121 N. Fairfax St. 7-9 p.m. No. Va. Regional Park Authority, sponsor. \$2.50 adults; \$1 children. (703) 549-2997

Williamsburg

December 14 GRAND ILLUMINATION

Official celebration marking the opening of the holiday season. Music, bonfires and the firing of cannon add to the festivities on Duke of Gloucester St. and Palace Green. 5:30 p.m. Free. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Leesburg

December 14, 15, 16 MORVEN PARK CHRISTMAS OPEN HOUSE

The annual Christmas Open House features the Governor's Mansion in resplendent traditional holiday decorations. Noon-5 p.m. Free. E.A. Maurer, Jr., Morven Park, Leesburg, Va. 703-777-2414

Lorton

December 14-16 CAROLS BY CANDLELIGHT

Candlelit Gunston Hall will be decorated for Christmas in the 18th century manner. 18th century music will be played from the musician's gallery in the Hall. There will be caroling in the reception center where punch and cookies will be served. Grounds open 9:30 a.m.-5 p.m.; Carol by Candlelight - 7-9 p.m. Friday, 3-5 p.m. Dec. 15 and 16: \$2.00 per adult; children 6-15 \$.50. Mrs. Louise L. Stockdale, Manager, Gunston Hall, Lorton, Va. 22079. 703-550-9220

Williamsburg

December 15-31 CHRISTMAS SEASON

Begins the weekend of Dec. 15-16 with special decorations, tours, feasts, musical events, displays and entertainment. Cost varies according to event. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Williamsburg

December 16-January 1 ABBY ALDRICH ROCKEFELLER FOLK ART CENTER

Noon-8 p.m. Free. Miss Beatrix Rumford, Director, Abby Aldrich Rockefeller Folk Art Center, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)



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Middletown

December 16-23 CHRISTMAS AT BELLE GROVE PLANTATION

House decorated for Christmas with tree, etc. Colonial period materials used. Music and light refreshments. 7-9 p.m. \$5.00 adults, \$2.50 children. Shirley Maxwell, Exec. Dir., Belle Grove, Middletown, Va. 22645. 703-869-2028

Arlington

December 16-24 BRINGING IN CHRISTMAS AT ARLINGTON HOUSE

General Robert E. Lee's home from 1831-61 will be decorated with garlands of native Virginia greens to look much as it did prior to 1866. On Sunday, Dec. 16, singers in period costume will give a program of Christmas music from 2-4 p.m. Located at Arlington National Cemetery. 9:30 a.m.-4:30 p.m. every day except Christmas. Free. Ann Fuqua, Site Supervisor, Arlington House, c/o National Park Service - GLUMP, Turkey Run Park, McLean, Va. 703-557-0613

Danville

December 16-January 1 THE CHRISMON TREE

In 1957 the Christmas tree in Ascension Lutheran Church was decorated with original handmade ornaments which the church calls Chrismons (CHRIST and MONogram.) Every year since then, additional ornaments were designed and added to this Chrismon tree. 7-9 p.m. each evening and 3-5 p.m. Sundays. Free. Leona Buettner, Ascension Lutheran Church, 314 West Main St., Danville, Va. 24541. 804-792-5795

Arlington

December 17 ARLINGTON METROPOLITAN CHORUS

Concert. 3 p.m., Gunston Arts Center. \$3.50; \$2. senior adults and students. Gay Garth, 300 N. Park Drive, Arlington, Va. 703-684-7271

Fredericksburg

December 21, 22 OPEN HOUSE AT THE RISING SUN TAVERN

The 18th century tavern built by Charles Washington at its Christmas finest, featuring decorations, a display of colonial tavern fare, carolers, hot spiced tea and tavern gingersnaps. 7-9 p.m. Free. Mrs. Jo Love Willis, Director, Bicentennial Visitor Center, 706 Caroline St., Fredericksburg, Va. 22401. 703-373-9391

Norfolk

December 21-19 NORFOLK DECEMBERFEST

A 10-day celebration that begins with the traditional Yule Log Lighting Ceremony at the Adam Thoroughgood House and continues with an open house with free admission to all 10 Norfolk Tour attractions during Decemberfest. Torchlight Gala on Saturday night, Dec. 22, at the Norfolk Botanical Gardens-By-The-Sea. Free hot chocolate and roasted chestnuts, madrigals and carolling, free concert. Regular Norfolk Tour hours except Torchlight Gala, 7:30 p.m. Free. Mr. Alan L. Troy, Marketing and Advertising Coordinator, 801 City Hall, Norfolk, Va. 23501. 804-441-5145

Charlottesville

December 22-26 MERRIE OLD ENGLAND CHRISTMAS CELEBRATION

Five days of warmhearted festivities from Christmases of four centuries ago. Boar's Head Inn. Write for rates and information. Ed Holliday, P.O. Box 5185, Charlottesville, Va. 22903. 804-296-2181

Williamsburg

December 25 CHRISTMAS DAY

Selected exhibition buildings are open for part of the day to visitors. General Admission Ticket. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Hampton

December 26, 27 HAMPTON CLASSIC

Hampton Coliseum. Basketball Tournament with Hampton Institute, Lincoln University, Morgan State and Virginia State. Game times: Dec. 26-7-9 p.m.; Dec. 27-7 p.m., Consolation Game; Dec. 27-9 p.m., Championship Game. \$5. per day. Samuel Massenberg, Dean of Men, HI, 804-727-5303.

Williamsburg

December 31 NEW YEAR'S EVE

Retreat, Colonial Williamsburg's Militia Company, Fifes and Drums and Virginia State Garrison Regiment perform on Market Square Green at 4 p.m. Free. Director of Travel, Colonial Williamsburg Foundation, Drawer C, Williamsburg, Va. 23185. 1-800-446-8956 (nationwide) or 1-800-582-8976 (in Virginia)

Charlottesville

Early December CHRISTMAS CANDELIGHT SERVICE & COMMUNITY SING

Downtown Mall. Hours to be announced. Free. Donna Massey, 416 E. Main St., Charlottesville, Va. 22901. 804-296-8548

Charlottesville

End of December ASH LAWN BY CANDELIGHT WITH MUSIC

Christmas greens and music at Ash lawn, Route 795. Hours and cost to be announced. Carolyn Holmes, Ash Lawn, Charlottesville, Va. 22901. 804-293-9539

Hampton

Mid-December CITY OF HAMPTON CHRISTMAS CONCERT

Area high school and bands come together with their choruses to perform Christmas music at the Hampton Coliseum. Free. Jim Steele, Hampton School System, 30 King's Way, Hampton, Virginia 23669. 804-727-6134

Leesburg

December ANNUAL CHRISTMAS OPEN HOUSE

Traditional Christmas decorations and tour of Morven Park. Open to public. Free. E.A. Maurer, Resident Manager, Rt. 2, Box 50 Leesburg, Va. 22075. 703-777-2414

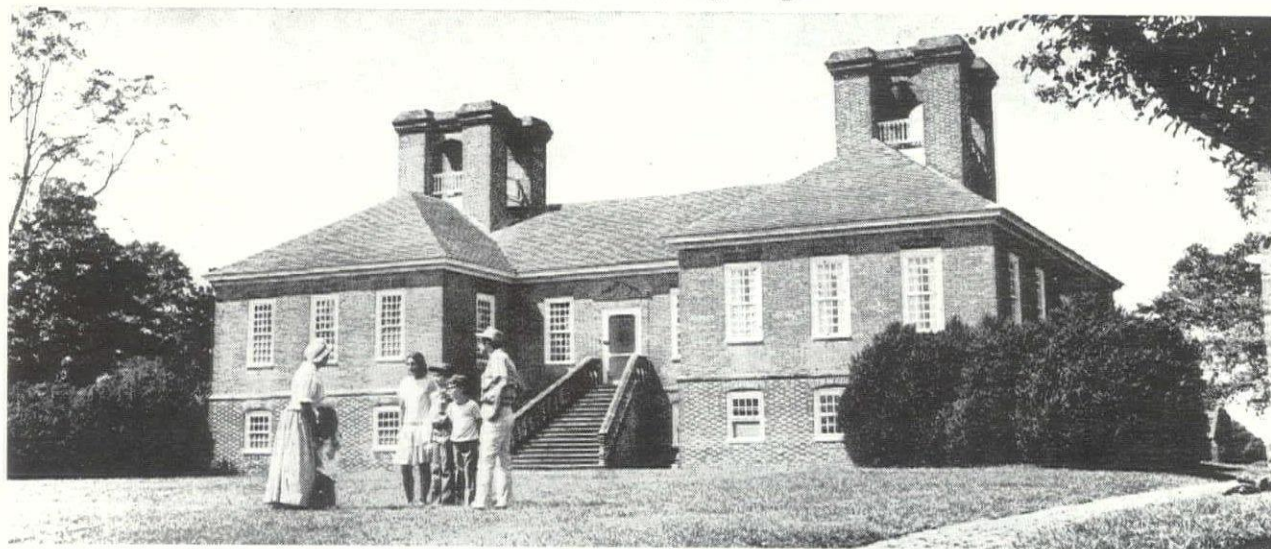
Norfolk

December A CHRISTMAS CAROL, By Thea Musgrave.

World premier of a new opera by Thea Musgrave, composer of last season's highly acclaimed production of Mary, Queen of Scots, which focused world-wide attention on the Norfolk area. To be based on Dickens' famous Christmas story of the same name, the opera will be in one act and will be accompanied by a chamber orchestra. Sunday performances at 2:30, all others 8:00. Individual tickets from \$7.50-\$12.50; season tickets can be purchased at substantial savings. Pearl Taylor, Virginia Opera Association, 261 Bute St., Norfolk, Va. 23510. 804-623-1223.

STRATFORD HALL PLANTATION

Westmoreland County, Virginia



Historic Home of the Lee Family

Built 1725-1730 by Thomas Lee. Born here were the only two brothers to sign the Declaration of Independence, Richard Henry Lee and Francis Lightfoot Lee, as well as General Robert E. Lee.

The Original Great House and four dependencies are over 250 years old. Facilities include a Reception Center with slide presentation and museum.

1500 acre plantation open every day except Christmas. Plantation Lunch served April through October — 11:30 a.m. - 3:00 p.m.

Stratford Hall is located just off of State Route 3 on State Route 214, six miles northwest of Montross, Virginia, in Westmoreland County and 42 miles southeast of Fredericksburg, Virginia.

Write for free brochure:
Robert E. Lee Memorial Association
Stratford Hall Plantation
Stratford, Virginia 22558

Fredericksburg Goes to the Dogs

FREDERICKSBURG goes to the Dogs again on October 6, 1979 when the annual Fredericksburg Dog Mart begins at 9:00 AM with a grand parade through the Fredericksburg Historic District. Featuring dogs of every shape and size, the parade is open to any dog accompanied by his/her master or mistress. Festivities will follow at the Fredericksburg Fairgrounds. The Dog Mart is held annually the first Saturday in October, rain date, the following Saturday.

The first Fredericksburg Mart began in 1698 at the close of the Colonial Indian Campaigns to encourage peaceful relations and trade with the Indians. Indians were invited to exchange goods, including pottery, furs and dogs at this once a year event.



In commemoration of the early marts, today's Dog Mart includes participation by the Pamunkey Indians with dances, demonstrations, exhibits and Indian wares for sale. In addition to the Indians, dogs are featured with an auction, show and competition. There are classes for most breeds, including miscellaneous and even a category for Ugliest Dog at the Mart.

Other special events for the Mart will be an Old Fiddlers Contest (ages 8 - 80), Turkey Calling, Fox Horn Blowing, Harmonica, Folk Guitar and Hog Calling Contests.

The Fredericksburg Dog Mart is sponsored by the Fredericksburg Chapter of the Izaak Walton League of America, a conservation organization. There is no admission fee for the Dog Mart or Parade.

For further information please contact: Mrs. Jo Love Willis, Director, Bicentennial Visitor Center, 706 Caroline St., Fredericksburg, Virginia 22401 (703) 373-9391.

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Alexandria's Autumn Volkslauf and Octoberfest

THE Alexandria Autumn Volkslauf, a running event for all ages, will be held on October 14 beginning at 9 a.m. at City Hall in Old Town, Alexandria.

Joggers will start at Cameron and Royal Streets and wind through Old Town to the Mt. Vernon bicycle path along the banks of the Potomac River and back. Those completing the 6.2 mile course within the prescribed time limits set for each of the twelve age and sex divisions, will receive commemorative patches in recognition of their achievement. Trophies will be awarded to the fastest in each class.

"Volkslauf," the German word for people's run, is a traditional celebration of physical fitness in many small western European towns. Alexandria's Spring Volkslauf in May 1978 attracted more than 1200 entries including men, women and children from 6 to 71 years. Among the participants were Virginia State Senator Wiley Mitchell and California Congressman

Paul McClosky. Last spring's Lauterstein Military Tailors and Gadsby's Tavern challenge cups were awarded to the Montgomery County Police Department for the Police and Fire Department Team competition and to the United States Marine Corps Headquarters Team for the military competition.

Time limits for the Alexandria Volkslauf are: 68 minutes for men and 81 minutes for women 18-24 years; 70 minutes for men and 83 minutes for women 25-29 years; 74 minutes for men and 87 minutes for women 30-34 years; 76 minutes for men and 89 minutes for women 35-39 years; and 85 minutes for men and 93 minutes for women 40-49 years. There are no time limits for boys and girls under 17 years or for men and women 50 years and older. All runners are expected back at City Hall at noon when the event officially ends.

Registration for the Volkslauf is between 8 and 9 a.m. at City Hall, Cameron and Royal Streets. There

is a 50 cent entry fee. Anyone under 14 may not register unless accompanied by an adult.

After the Volkslauf, there will be an awards ceremony followed by an Octoberfest celebration at Gadsby's Tavern, 134 N. Royal St. The Tavern's courtyard will be converted into a German biergarten serving saurbraten, bratwurst, black forest cake and German beer with an oompah band playing throughout the afternoon. Other Old Town restaurants will also be offering German fare.

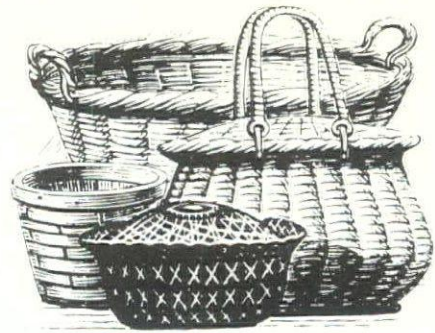
The Alexandria Volkslauf is organized by William McNamara, Chairman, Special Events Committee, Friends of Gadsby's Tavern and co-sponsored by the President's Council on Physical Fitness and Sports, the Potomac Valley Senior Track Club, Alexandria Advertising Specialties, Inc. and Mutual of New York.

For more information contact the Alexandria Tourist Council, Ramsay House Visitor's Center, 221 King Street, Alexandria, VA 22314, (703) 549-0205.



"Volkslauf" Runners in Starting Position

Sixth Annual Blue Ridge Folklife Festival, Ferrum



HELD the fourth Saturday in October each fall on the Ferrum College campus (Saturday, October 27, this year), this Festival provides demonstrations of early mountain crafts and skills by traditional craftsmen and musicians. To be seen and experienced are: various indoor and outdoor crafts; food preparation and preservation; farm equipment; a steam and gas engine show; a horse and pony pull; and displays of the region's car culture. The day-long Festival, held on the 750 acre campus approximately 35 miles northwest of Martinsville, is considered to be one of the most historically accurate and popular festivals of its kind in the country. Despite the large number of visitors (upwards of 25,000) there has been no problem with overcrowding since the Festival is spread out over such a large part of the Ferrum campus.

People come from as far away as Florida and Massachusetts and from as near as Crossroads, Virginia. Most come to get a glimpse of the past. Some come for specific events, to see friends or relatives who participate, or to learn from the Traditional Craftsmen who demonstrate their skills during the day. Some come just to remember.

One thing is sure, *everyone* who comes eats heartily, this is not a place for dieters. Food vendors work steadily all day to prepare the traditional foods of the Blue Ridge people and their efforts are appreciated by all in attendance.

Most of the Festival Participants can be classified as home industry craftsmen. They are housewives, farmers, millworkers, or retirees who have supplemented their income by returning to the crafts which they either practiced or observed in their youth. All craftsmen participating in the Festival are traditionalists, practicing skills which have been part of their family, community and region for generations and handed down from parent to child, neighbor to neighbor. Whether it may be a patchwork quilt, a dulcimer, a carved cane or a child's rag doll, the crafts you will see at the Festival are all part of the history of the Blue Ridge Mountains. More than that, they are testimony to the skill, imagination and creativity of the Blue Ridge people.

Many of the events have grown in the past years. Last year, both the Steam and Gas Engine Show and the Franklin County Car Culture Show quadrupled in

size. The Country Auction was new in 1978 with lots of country articles up for auction — everything from copper wash kettles to cigar molds. And, there was even an Oldtime Medicine Show.

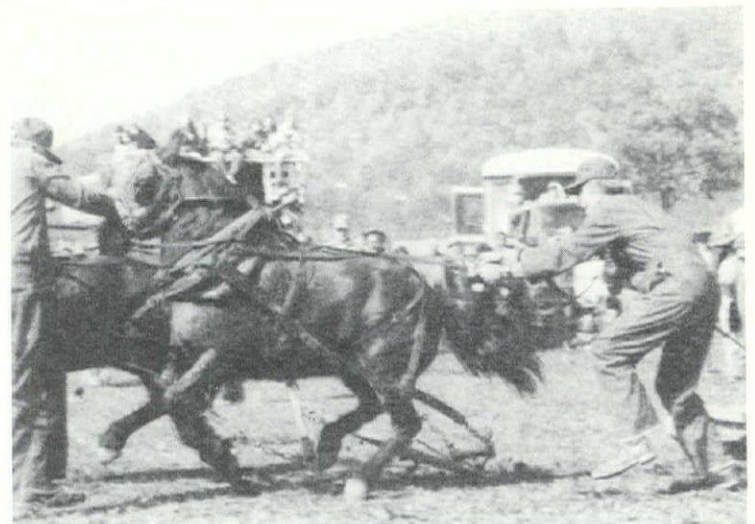
Music is a big part of the Festival too, in this area where the styles and types of music freely mix and mingle. Over the years "new" instruments such as the banjo and "new" styles such as gospel music have emerged from the musical melting pot of past settlers. Traditional music has grown and remained strong in the Blue Ridge. It can still be heard at the fiddlers' contests, square dances, house parties and hymn sings that represent such a large part of the culture there.

Children are not forgotten in the Festival plans, there is storytelling, along with ballad singing and organized activities consisting of games which have grown up with America over the past 200 years. There's even a "Young MacDonald's Farm" where city-bred youngsters may get their first actual exposure to farm life and animals. Here, they are given the opportunity to hold a furry rabbit, pet a skunk and even try their luck at milking a cow!

This fascinating look into the life of the people of the Blue Ridge Mountains is the work of the Blue Ridge Institute, with cooperation from many agencies and individuals, whose purpose is encouragement of cultural preservation.

Although the Blue Ridge Institute itself is only six years old, its roots and concepts reach back many generations. When Ferrum College began as a training school for local children in 1913, the rural communities of the Blue Ridge had long developed a pride and self sufficiency necessary to survive the rugged life of the mountains. These people learned to "do" for themselves and their neighbors or do without. The College brought to the mountain communities an outlet to the world and a means to educate their children to what lay outside the Blue Ridge — never forgetting the rich cultural heritage they already had at home. Throughout its development from training school to high school to Junior College to four-year school, it has been one of the College's primary goals to serve as a means of communication for the community which surrounds it. The Blue Ridge Institute now has become the vehicle for that communication.

For more information about the Festival and other activities conducted by the BRI, write: Blue Ridge Institute, Ferrum College, Ferrum, Virginia 24088, or call (703) 365-2121, Ext. 107.



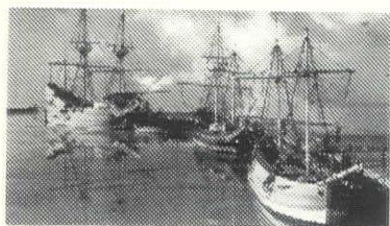


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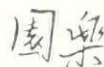
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The Merrie Old England Christmas Celebration

Charlottesville

A LIGHT-HEARTED sampling of holiday frolics from Christmases of centuries ago will take place at the Boar's Head Inn from Saturday evening, December 22, through Wednesday morning, December 26. The event brings back the mood of Christmases that Virginia's first settlers transplanted to the Colonial wilderness — hearty enjoyment of feasting, gambols and good fellowship — for an all-too-brief period of "peace on earth, good will to men."

Calendar of Entertainment for The Merrie Old Christmas Celebration

Saturday, Dec. 22-Starting 8:00 P.M.

On this first day of Winter, Lord of Misrule welcomes you to hearthside warmth ... Elizabethan "Ball and Banquet" offers after-dinner dessert buffet of old-time dainties such as marchpane, rose-flavored cake ... Curious folk dances of jingling Morris Men, associated with winter solstice for centuries untold ... Hilarious Mummings' folk-play of St. George and the Grand Turk, remnant of medieval mystery plays which gleeful countryfolk shaped into farce (complete with quack doctor, Old Father Christmas).

Sunday, Dec. 23

Outrageous antics of authentic Punch and Judy hand-puppets for moppets with sly humor for adults ... Children's play-party ... Trumpet fanfare, procession of Lord of Misrule's retinue ... Proclamation calling for "merry disports" ... Stirring dances of Morris Men ... Outdoor search for Yule Log; prize to finder ... Fireside ritual of Kindling the Yule Log, with casting away of woes for lightness of heart ... Carols and wassail ... "Feast Before Forks," eaten medieval-style without the fork, which England scorned till late 16th century ... Seven courses all flavorsome with herbs and flower essences, such as salett with Vyolettes, Cornish byrdys, rybbys of Beef, gret Mete pyes, pudding of Plumme, and then some ... Entertainers perform at Whim of ye Lord of Misrule, in Henry VIII tradition ... Ladies pour spyc'd wyn for their lords.

Monday, Dec. 24

Four-in-hand stagecoach rides recall Mr. Pickwick's Christmas journey to Dingley Dell; seats inside or on top ... Carol tour of Inn grounds, with Christmas corn for the waterfowl ... Old rural outdoor frolics of wassailing the pear trees, "winding up the apple tree," then some warming wassail indoors ... Madrigals that brightened Elizabethans' winter hours with melody, wit, and harmony ... Tour (self-guided) of Inn's English oak heirlooms that have seen centuries of Christmas cheer ... Antique buffs test seating of 1620 settle, Jacobean wainscot chair, sentry chair, yew windsors.

Tuesday, Dec. 25 — Christmas Day — 7:30-10:30 A.M.

Christmas Champagne Breakfast ... Ancient ceremony of Bringing in the Boar's Head, with pomp and minstrelsy ... Men's voices ring out in exclusive



Main entrance to the Boar's Head Inn provides the path for an enjoyable stay by Inn guests. A wide range of historical attractions and recreational facilities are available at all times.

arrangement of rare "Boar's Head Carol," already old when printed in 1521 ... The Inn's traditional boar's head cookies ... Fireside "Songs of Old England" accompanied on lute ... Command Performance play in royal tradition that brought Shakespeare's company to perform for Elizabeth I and James I ... English country dancing.

Wednesday, Dec. 26 — Starting 7:00 A.M.

St. Stephen's Day Auld Lang Syne Brunch, with cumin seed rolls in horseshoe shape, honors the patron saint of horses and of journeys ... Cumin seed recalls medieval belief that this aromatic flavoring assures travelers a safe trip and a speedy return ... Farewell stirrup cup of coffee, for alertness and safety on the road.

At your pleasure: Take an any-time self-guided tour of the evergreens among ornamental plantings on Inn grounds. List supplied on request. There are also indoor and outdoor sports facilities for the enjoyment of guests at the Inn and package plans are available for this and other times during the year.

Boar's Head Inn Background

The land that the Boar's Head Inn stands on was an original land grant, patented in 1735, by two brothers-in-law. They built an Ordinary, named Terrell's Ordinary. As settlers moved west many stopped at Terrell's Ordinary for food and hospitality. In 1763 Terrell sold the Ordinary for 300 pounds. Consequently, this land has a history of hospitality dating back to pre-revolutionary days.

An integral part of the Boar's Head Inn dates to 1834, when Martin Thacker, a local businessman, and Martin Dawson, a master builder, signed an agreement to build and operate a mill on the Hardware River, not far from Jefferson's Monticello. After their deaths the mill passed through many hands and during the Civil War the structure came close to being destroyed. When General Grant and General Custer marched through Charlottesville the order was given to destroy all manufacturing and transportation facilities. The old mill survived, however, and rumor holds that the mill's strong construction and days of heavy rains prevented it from burning.

After the war a retired Confederate Captain, R. J. Hancock, bought the facility and operated it for 66 years under the name "Eulus Mill," after his most famous race horse.

In the early 1960s the Old Mill was purchased, taken down piece by piece, with every timber numbered, moved by truck and carefully reconstructed on its



present site. The Boar's Head Inn was built around the authentic structure, and the Old Mill Dining Room occupies the second floor of the original Mill. Each beam, post and bolster stands in its original location, with ceiling beams 43-feet-long and the flooring one-and-one-half-inches thick. The miller's office once stood in the right hand corner as you enter the room, and the chimney and fireplace are original.

The completed Boar's Head Inn was formally dedicated by then Virginia Governor Albert S. Harrison, Jr. on February 1, 1965.

Work is currently underway on a \$3 million expansion program, with John Craven and Gibson of Charlottesville serving as architects. The expansion, in form of a separate wing, adjacent to the popular resort facility is scheduled for 1980 completion.

For information on The Merrie Old England Christmas Festival contact the Reservations Manager, The Boar's Head Inn, P. O. Box 5185, Charlottesville 22905. Phone: (804) 296-2181.

For a Traditional Christmas we offer...

The Chrismon Tree

Danville

December 16 through January 1

The Chrismon Story

by

Thomas K. Stahl

ALTHOUGH it seems highly unlikely, it may be assumed there are many who will read this article who have never heard of the Chrismons. Many others have seen Chrismons or heard of them but would like to know more about their origin. Therefore, this article shall be more or less the descriptive story of this Christian witness.

What are the Chrismons? Essentially they are a unique way of commemorating the birth, life, and death of our Lord Jesus Christ. All of the original Chrismons, and many of the subsequent ones were devoted specifically to telling about Our Saviour — hence the name Chrismon (Christ Monogram.) Later additions to the collection were inspired by the other members of the Holy Trinity, the Father and the Holy Spirit.

All of the Chrismons are in white, gold or crystal. The white symbolizes the purity of the Lord, the Gold symbolizes the kingship of God and the crystal symbolizes the waters of Baptism. The Chrismons are constructed of styrofoam, beads, wire, plus some other materials for specific purposes. There is no set number of Chrismons that should appear on the tree, but the total number of different designs is in the hundreds.

The Chrismon tree was devised in the mind of Frances Kipps Spencer in 1957. Like so many other Christians the idea of a tree with colored lights in the church seemed inappropriate to her. There are some who would say it bordered on sacrilege. So Mrs. Spencer researched sources on Christian symbolism and discovered a number which have been used by Christians through the centuries since the time of Christ. She then converted these ancient symbols into designs for ornamentation appropriate for a church tree to be displayed at Christmas.

In 1957 the first Chrismon tree, containing only a few Chrismons, was erected at Ascension Lutheran Church in Danville. Each year since that time, additional Chrismons have been added. In Mrs. Spencer's own words, "The tree will never be completed." Over the years the tree at Ascension has grown with the number of these decorations. Today the tree usually measures approximately twenty feet in height and approximately eight feet in diameter at the widest point. Most recently the

church has begun to receive variations of the standard Chrismons from around the world. These are sent by people who have new ideas or new materials they have put to use on Chrismon trees.

Today Chrismon trees appear in churches of all Christian denominations, in every state of the Union, and on every continent of the earth, except Antarctica. Chrismons even exist behind the Iron and Bamboo curtains in states with atheistic Communist governments.

The spread of the message of Christ by this unusual medium has proceeded pretty much in a natural progression. Travelers will see a Chrismon tree somewhere and carry the message back home. Then some person or group will decide they too would like Chrismons for their church at home. And the process repeats itself again and again.

Instruction booklets containing detailed instructions are reasonably priced. No profit is

realized by the church and the Chrismons are free and easy to construct. The only restriction on the manufacture of Chrismons is that they may not be made for sale.

There is no set time frame for displaying a Chrismon tree. At Ascension it is usually erected approximately ten days before the feast of the Incarnation and remains until about the feast of Epiphany, twelve days following Christ's birth. Members of the congregation handle all facets of the tree. This includes obtaining a cedar tree of the proper dimensions, setting it in place, placing the lights and Chrismons on it, serving as explainers for visitors and acting as hosts and hostesses. Visitors are welcome each evening and Sunday afternoons while the tree is on display.

The Chrismon Committee at Ascension Lutheran Church maintains a speakers bureau. Upon request a speaker will come to address groups on the Chrismons and their symbolic meaning.

For additional information contact: The Chrismon Committee, Ascension Lutheran Church, 314 W. Main Street, Danville, Virginia 24541. Phone 879-792-5795.



Sporting Pets Requires Advance Planning

plain wicker basket and a Kansas tornado traveling easy for Dorothy and her dog Toto in "The Wizard of Oz." Today's contemporary pet owners find modern trains, planes, and buses make travel a bit more complicated. Traveling with a pet poses a number of unique problems that require a good deal of advance planning.

In making vacation plans, prior arrangements for transporting the family pet can be as important as choosing the final destination. Although transporting fish or birds is best left to professionals, dogs and cats can travel with little difficulty if advance preparations are made to ensure the health and well-being of the animal.

Transportation options are limited when a pet is added to the passenger list. A recent survey of major airlines and rail lines conducted by the Pet Information Bureau, New York, found that animals of any kind are strictly prohibited from accompanying a passenger or traveling as cargo. The Bureau also found that most cruise ships have restrictions on transporting pets. Automobile and airplanes are the most common form of travel for dogs and cats.

What You Go

A complete and thorough advance check-up is recommended by most veterinarians regardless of whether the pet will accompany you on the trip, or if it is boarded in a kennel. The pet's doctor can

decide if tranquilizers are necessary to protect the animal from any upset that may occur in traveling.

Dr. Frederick Tierney, a New York veterinarian, advises testing tranquilizers weeks before departure to determine which, if any, drug is most suited to the animal. Tranquilizers affect cats, for instance, differently than dogs.

Health certificates are usually necessary if you're taking your pet abroad and to Hawaii (which requires a 120-day quarantine on all animals). An up-to-date record of rabies vaccinations can also smooth your pet's entry into another state or country. Some states require vaccinations every six months, others only once every two years. It's a good idea to check with the U.S. Travel Service before departure. This organization, based in Washington, D.C. can provide information regarding transporting pets domestically and abroad.

Another way to check local foreign regulations is by contacting embassies or immigration offices in the countries being visited. The United Kingdom, for instance, requires filing an application six weeks prior to the arrival date and a six month quarantine period for animals that enter the country. The government maintains numerous kennels in various parts of the country, so chances are the pet can be boarded near your destination. Boarding and vaccination costs remain the responsibility of the pet owner.

Airline Travel

All major airlines accept pets with or without their masters, and rates vary accordingly. The animals must be contained in "kennel carriers." Depending upon size, they will either be placed securely in the plane's cargo hold or under the seat. The price of the trip depends upon size of the carrier. Over-all, travel expenses vary from airline to airline. It is best to survey several for the best rates in both domestic and foreign travel.

Carriers can be purchased in most pet shops or from the airlines directly, and there is a wide variety to choose from. Two acceptable types are constructed of polyplastic and fiberglass. Important

features to look for are good ventilation, enough room to permit the animal to sit and lie down, a secure latch or lock so it won't escape in strange surroundings and become lost, and a secure handle. Before the excursion, it might be beneficial to acclimate the pet to its carrier by confining it in the enclosure for brief periods of time. Including the pet's own feeding and watering dishes, bedding, leash and collar will help make it feel secure.

The Family Car

If planning to travel by car, there are several precautions that should be considered. First, never leave the pet alone in the car for long periods of time, especially in the hot sun or in cold weather. Always park in the shade, but remember, what was shade when you left your pet may not be when you return, since the position of the sun changes. Open the window slightly if the animal is left in the car. Leave water in the car to ease the animal's thirst and consider ice cubes or ice cream which won't spill like water might. Be sure to keep feeding to a minimum. Most dogs ride quite well and in fact, some even enjoy being in a moving car. Cats however, may not adapt as well and therefore might require a carrier.

Leaving Your Pet Behind

There are a number of options to consider if you must leave your pet behind. Boarding kennels, for instance, provide feeding, exercise and personal attention to pets. Consult a local veterinarian or check the yellow pages for nearby kennel. Visit the kennel personally beforehand to ensure a trained veterinarian is on-staff and the premises are clean and well-kept. Some kennels offer special services such as exercise plans and diets, beauty treatments and "door to door" pickup and delivery for the animals.

Traveling with a pet can be a pleasant experience, so long as proper precautions are taken before you leave.

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"Concerned Indian" is Subject of Second KAB Lithograph

• Keep America Beautiful, Inc. has introduced "Iron Eyes," a limited edition signed and numbered lithograph of the original oil portrait of Iron Eyes Cody by nationally acclaimed North Carolina realist artist Bob Timberlake.

Each of the 1,000 full-color reproductions has been signed and numbered by the artist and by Mr. Cody who has gained national recognition over the past decade as the "Concerned Indian" in the KAB/Ad Council public service campaign.

"Iron Eyes" is Mr. Timberlake's second work as KAB's Official Artist. "Daisies," his portrayal of the simple beauty of America, received wide acclaim and has been appraised by the Art Appraisers Association of America at \$15,500.

Victor J. Hammer, president of the prestigious Hammer Galleries in New York commented that, "Bob Timberlake has developed one of the largest and most enthusiastic followings in the art world today."

Iron Eyes Cody, a Cherokee/Cree Indian, is a veteran Hollywood and television actor. He began his acting career in silent movies at the age of twelve and since has appeared in over 200 westerns, numerous television specials and his own radio show. Throughout his professional life, Mr. Cody has been an active proponent of human dignity and other vital causes, making countless personal appearances on behalf of Keep America Beautiful, Inc.

The vibrant color reproductions of "Iron Eyes" have been carefully printed to the artist's specifications on 100 percent rag paper stock specially prepared in France by BFK Rives. Timberlake's personal watermark assures authenticity of each edition.

The "Iron Eyes" lithographs are available to the public for \$200, part of which is tax deductible. Proceeds go to KAB's educational programs.

Since 1953, Keep America Beautiful, Inc. has provided the national leadership for responsible citizen involvement in environmental improvement. Its CLEAN COMMUNITY SYSTEM, introduced in 1976, is the nation's first behavioral science approach to waste handling. To date 162 communities coast to coast are implementing the program and recording sustained litter reductions as high as 75 percent.

Sperry Univac and SBS Announce New Sites In Fairfax County

• Two major corporations, Sperry Univac and Satellite Business Systems (SBS) recently announced major land acquisitions in Fairfax County as sites for administrative offices or research and development facilities.

Sperry Univac announced that it has taken an option to purchase a 27.5-acre site in the Westpark business complex at Tysons Corner. SBS announced that it has an agreement with the Reston Land Corporation to purchase a 40-acre site fronting on Sunrise Valley Drive and the Dulles Airport Access Road in Reston, subject to local rezoning approval.

Sperry Univac is the computer manufacturing and marketing division of the Sperry Rand Corporation. The company said that it is studying the feasibility of consolidating a number of facilities it currently leases throughout the metropolitan Washington, D.C. area into a six-story, 250,000-sq. ft. facility on its new site. The firm anticipates employing approximately 1,000 people at its Westpark office. The company maintains a variety of marketing support offices in the Washington area, including the headquarters of its Federal Systems Division, which supplies commercial computer systems to the U.S. Government.

SBS announced no formal development plans for its new site. The company, in a prepared statement,

indicated that its new site is intended for the consolidation of its existing Fairfax County facilities. SBS, which is a partnership comprised of Aetna Life & Casualty, Comsat General and IBM, currently leases more than 140,000 sq. ft. of office space in three different locations in Fairfax County. The firm, which is headquartered in Fairfax County and employs more than 400 people here, was established in 1975 to offer domestic satellite communications to business, industry and government. It will begin commercial satellite services in January 1981.

U.S. Census Bureau figures show Fairfax County to be the fastest-growing jurisdiction in the metropolitan Washington, D.C. area. In 1978 over \$213-million worth of commercial building permits were issued in the County, close to double the 1977 total of \$110-million. In addition, during this last calendar year Fairfax County not only led the metropolitan area in such permits, but scored more than double its second-place competitor, the District of Columbia, and almost triple the total of neighboring Montgomery County, Maryland, in the number-three spot.

A special four-page chart has been prepared by the U.S. Department of Commerce which shows comparative commercial construction growth in Fairfax County, surrounding counties and Washington, D.C. The report is available without cost by writing: "DCI-Fairfax Construction, Suite 2100, 733 Third Avenue, New York, New York 10017."

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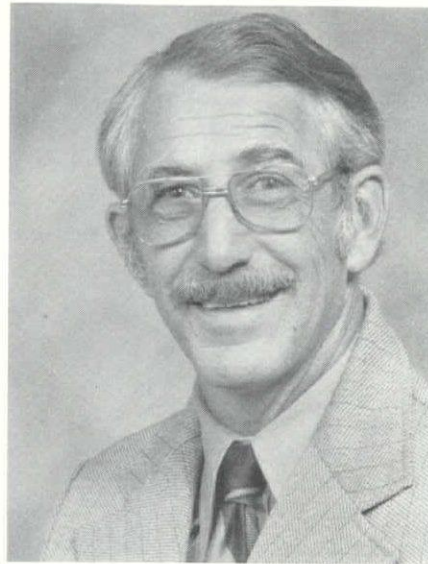
RICHARD L. WILLIAMS

President

- President for the Consulting Engineers Council of Virginia for 1979-1980 is Richard L. Williams.

Williams was graduated in 1959 from Virginia Polytechnic Institute and State University with a B.S. degree in civil engineering. He formed his own firm - Richard L. Williams Consulting Engineers - in 1973 in Roanoke, offering professional services in civil, structural and sanitary engineering.

He is licensed to practice in Virginia, West Virginia, North Carolina, Tennessee, Kentucky, Ohio, Pennsylvania and Maryland.



ROBERT D. SAYRE

President-Elect

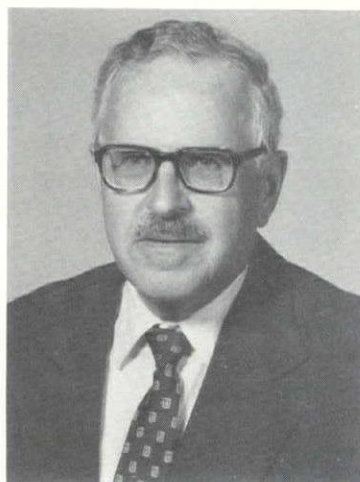
- Robert D. Sayre is 1979-1980 president-elect of the Consulting Engineers Council of Virginia. He will automatically become president in 1980-1981.

Sayre was born in Canton, S.D. He was graduated in 1950 with a B.S. degree in civil engineering from the South Dakota School of Mines and Technology, and received a Master's civil engineering in 1952 from the University of Virginia.

After working for E.I. duPont de Nemours, the Corps of Engineers and two engineering firms, Sayre opened his own consulting engineering firm in Richmond in 1968. In 1973, he took in a partner and changed the name of the firm to Sayre & Sutherland, Inc., and became its president.

Sayre is registered in Virginia, West Virginia, North Carolina, South Carolina, Maryland, Ohio and the District of Columbia.

In addition to the Consulting Engineers Council of



Virginia and the American Consulting Engineers Council, Sayre is a member of the National and Virginia Societies of Professional Engineers. He received the Virginia Society's outstanding service award in 1968 and its distinguished service award in 1973. He also was president of VSPE in 1972-1973, and president of the Engineer's Club in 1970.

Sayre is a Fellow of the American Society of Civil Engineers, and belongs to the International Society of Soil Mechanics and Foundation Engineering, the Virginia Association of Professions and the American Arbitration Association. He also is a member of the board of directors is on the executive committee of Terra Insurance, Ltd., Hamilton, Bermuda.

He is a Mason, member of Lions International, and an Elder in the Tuckahoe Presbyterian Church in Richmond.



W. DOUGLAS ENSOR

Vice President — Eastern Region

• W. Douglas Ensor is vice president of Malcolm Pirnie Engineers, Inc. He joined the firm in 1964, and has been in charge of the firm's regional office in Newport News since 1971.

Ensor was graduated from Newark College of Engineering in 1968 with a B.S. degree in civil engineering. He is a registered professional engineer in Virginia, New Jersey, New York and North Carolina; a licensed land surveyor in New Jersey and New York, and a registered professional planner in New Jersey.

In addition to the Consulting Engineers Council of Virginia and the American Consulting Engineers Council, Ensor belongs to the National Society of Professional Engineers and the Virginia Society of Professional Engineers, the American Water Works Association, American Public Works Association, Water Pollution Control Federation, American Congress on Surveying and Mapping and the Virginia Association of Professions.

Honors, awards and offices held by Ensor include chairman of the VSPE Publications Committee; president of the Peninsula Chapter of VSPE; State and Peninsula Chapter of VSPE "Outstanding Service Award," and New Jersey State Society of Professional Engineers "Young Engineer of the Year Award."

Ensor is married to the former Joan Elberfeld, and they have one daughter.



GILBERT L. FAISON

Vice President — Central Region

• Gilbert L. Faison is a charter member of the Consulting Engineers Council of Virginia and has served the organization in many capacities, including chairman of the Professional Practice Committee for several years, and presently as chairman of the Government Affairs Committee.

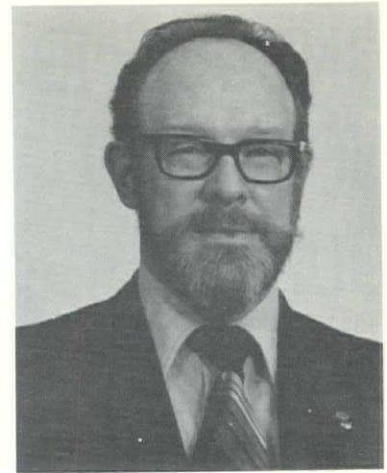
Faison is a director and executive vice president of the consulting engineering firm of Roache, Mercer and Faison, Inc., in Richmond, having joined the firm in 1969. Before entering private practice, he worked in electrical engineering capacities for Appalachian Power Co. and Allied Chemical and Dye Corp.

Faison received a B.S. degree in electrical engineering in 1949 from Virginia Tech where he lettered in baseball (pitcher) and earned membership in Tau Beta Pi and Eta Kappa Nu engineering honor fraternities, and Omicron Delta Kappa leadership fraternity.

He is a past president of the Virginia section of the Illuminating Engineering Society, the Electrical League of Richmond, the Hanover Ruritan Club and the Richmond Alumni Chapter of Tau Beta Pi. He is a member of the National Society of Professional Engineers and the Virginia Association of Professions. Faison holds certificates of registration in Virginia and the District of Columbia, and a certificate of qualification with the National Council of State Boards of Engineering Examiners.

Faison is choir director, elder and a trustee of Mechanicsville Presbyterian Church. He also has served on the board of directors of the Westwood Racquet Club, where he is an avid tennis player.

He and his wife, the former Jewel Cowan, live in Mechanicsville.



OLIVER P. STRAWN, JR.

Vice President — Western Region

• Oliver P. Strawn, Jr. is a partner in the CEC/V member firm of Scott & Scott, Inc.

A native of Martinsville, Virginia, Strawn received his B.S. and M.S. degrees in Mechanical Engineering in 1950 and 1965, respectively, from Virginia Polytechnic Institute.

Before joining his present firm in 1976, Strawn operated his own consulting office in Blacksburg from 1972 to 1975. He was assistant professor of engineering at VPI from 1957 until 1972.

In addition to his many activities in the Consulting Engineers Council of Virginia and The American Consulting Engineers Council, Strawn is a member of the Virginia and National Societies of Professional Engineers; American Society of Mechanical Engineers and the American Society of Heating, Refrigeration and Air Conditioning Engineers.

Strawn belongs to the Southern Baptist Church in Blacksburg where he has served as Deacon and Sunday School Superintendent.

He also was chairman of the Montgomery County Republican Party from 1969 until 1976, and has been a member of the Party's state Central Committee since 1976.

Strawn is active in the PTA, the Lions Club and Boy Scout work.

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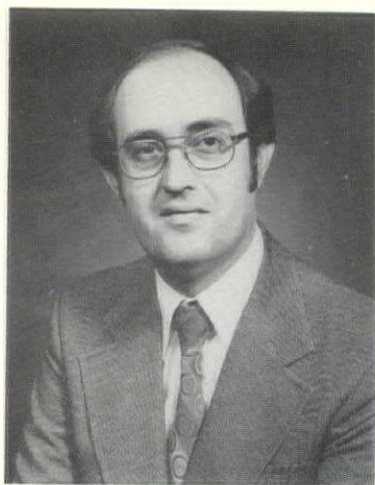
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• Daniel J. DeYoung received his early education in public schools in different parts of the country, and was graduated from high school in Kaiserslautern, Germany.

He attended Hope College in Holland, Mich., before transferring to VPI & SU in his junior year. He was graduated from VPI & SU in 1961 with a B.S. degree in civil engineering.

DeYoung has worked as bridge design engineer for the Kentucky Department of Highways, in the bridge division of the Virginia Department of Highways and as an estimator/resident engineer with a Maryland general building contractor. He then spent six years as a structural engineer with Torrence, Dreelin, Farthing and Buford, followed by a position as chief staff structural engineer for R. Stuart Royer & Associates.

In 1973, DeYoung became a vice president with Architects and Engineers, Inc. (formerly Woodson, Littlepage and DeYoung, Inc.) in Williamsburg. He is registered in Virginia, Maryland and Alabama.

DeYoung is a member of the Virginia and American Consulting Engineers councils, the National Society of Professional Engineers, and was 1977-1978 president of the Williamsburg chapter of the Virginia Society of Professional Engineers. He also belongs to the Society of Marketing Professional Services, the American Concrete Institute, Westgate Lodge #352, AF & AM of Richmond, and the Williamsburg Kiwanis Club.

DeYoung is married to the former Jackie Weatherman, of Patrick County, and they have two sons.



HENRY P. SADLER

Treasurer

• Henry P. Sadler is a charter member of the Consulting Engineers Council of Virginia, and has served that organization in many capacities over the years. In 1977 he received the CEC/V Past Presidents' award for outstanding service.

He is president of Henry P. Sadler & Associates, Inc., Consulting Engineers, of Richmond, and is a registered civil engineer in Virginia, North and South Carolina and Florida.

Sadler is a member of the American Society of Civil Engineers, American Arbitration Association, American Public Works Association, American Railway Engineering Association, American Water Works Association, National and Virginia Societies of Professional Engineers.

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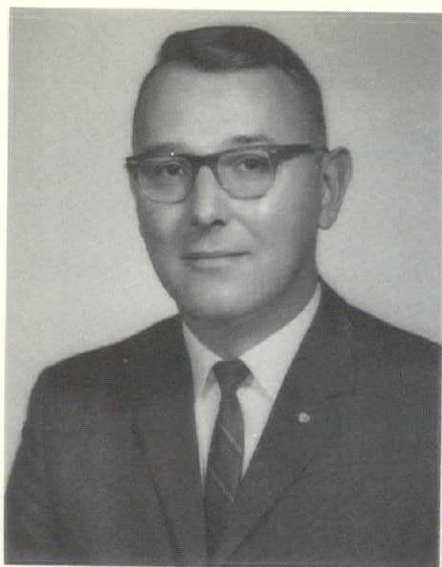


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JAMES A. LIMERICK, JR.

Director

• James A. Limerick, Jr., is director of the Consulting Engineers Council of Virginia for 1979-1980.

A native of Richmond, Limerick holds a B.S. degree in civil engineering from VPI & SU. A former sanitary engineer for the Virginia Department of Health, he joined R. Stuart Royer & Associates in 1955, and now is a partner in the Richmond, Va., consulting engineering firm. He is a certified professional engineer in Virginia, West Virginia and North Carolina.

Limerick has been a member of CEC/V and the American Consulting Engineers Council for many years, and has served the state Council as vice president, and as chairman or member of many of its committees. He also belongs to the Virginia and National Societies of Professional Engineers, Virginia Association of Professions, American Waterworks Association, and Water Pollution Control Federation. He has served on several advisory groups and panels to the State Water Control Board.



HARRY W. KINCAID

Executive Director

• Harry W. Kincaid, has been executive director of CEC/V since May 1976. A native of Morgantown, West Virginia, Kincaid was in the U.S. Navy from 1951 to 1954.

In September 1954, he enrolled at West Virginia University and was graduated in 1957 with a B.S. degree in journalism. While a student at WVU, he worked part time as an announcer/copy writer for a local radio station.

Following graduation, he moved to Richmond and became a reporter for The Richmond News Leader. In 1959, he joined the public relations department of A.H. Robins Co., Inc., an international pharmaceutical manufacturing firm headquartered in Richmond.

In 1964, Kincaid moved to Washington, D.C., and joined the public relations staff of the Pharmaceutical Manufacturers Association. Three years later he was named assistant association manager of the Washington-based Institute of Industrial Launderers, the trade association for the rental work uniform and career apparel industry.

Kincaid is a member of the Virginia Society of Association Executives and the American Society of Association Executives.

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CEC/V Vice President Ensor Named Engineer of the Year

W. DOUGLAS ENSOR, vice president of Malcolm Pirnie Engineers Inc. of Newport News and White Plains, N.Y., was named the Peninsula's Engineer of the Year for 1979.

A certificate citing Ensor's "outstanding service on behalf of the engineering profession and his

community" was presented in February by the National Engineers Week Committee at an annual dinner meeting sponsored by 15 professional engineering societies in the area.

Ensor was commended for his firm's contribution in planning water resources, water supply and

treatment and wastewater treatment on the Peninsula.

He has worked in various fields of civil engineering during his career, including environmental/sanitary, transportation/highway, geotechnical/soils, municipal engineering and land surveying.

Ensor, who graduated from Newark College of Engineering, has been with Malcolm Pirnie since 1964 and is now head of the regional office in Newport News. He has been in the forefront in providing leadership and humanistic understanding in dealing with his fellow engineers and colleagues, said the commendation.

Ensor was cited for his imaginative foresight, ingenuity, ambition and concern for people.

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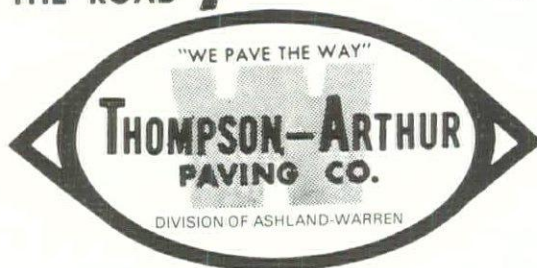
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Professional Standards, Fees, and Wages

ONE of the most difficult problems confronting consulting engineers and architects is maintaining high professional standards. The average consultant faces a variety of external pressures to reduce professionalism and while this statement may come as a shock to some, it is most definitely a reality. The problem needs to be addressed because the future role of the consulting service will be even more important to society than it is presently.

In order to elaborate on the type of pressures exerted on consultants to reduce professionalism, we must first explain the meaning of high professional standards. High professional standards goes far beyond existing statutes and self imposed codes of ethics. Simply stated it is the quest of the profession to provide to each client procuring services from the profession, the best possible services available. This means each client procuring services from the profession should expect and receive as much expertise and time as is required to perform the service procured. As is abundantly clear, to provide this expertise and time is extremely costly. The following facts will emphasize that the expertise required of the profession is at an all time high: 1) technology of the profession, particularly engineering, is changing so rapidly; 2) national and local building codes are changing frequently and differ from one local to another; 3) local building inspection departments are better staffed to enforce the codes than ever before; and 4) construction costs are increasing so rapidly. Indications are that expertise required in the future will be even greater. To provide this high caliber expertise requires dedicated and qualified personnel who really are the backbone of our professional standards.

The external pressures to lower professional standards can be categorized into two general areas - 1) inadequate time allowances to perform a competent job and 2) inadequate fees. Both of these are taking their toll on our profession. The result of inadequate time and fees are poor performances which may not be of the nature to cause litigation but will damage the profession in terms of respect and image.

People who are educated, trained, and otherwise qualified to provide expertise should be compensated in accordance with their skills and background. Unfortunately, for the most part this is not the case today. If the profession is to attract and hold high quality personnel, who ultimately form the nucleus of the profession's image and reputation, then fees and wages must definitely improve. Consider the educational background, time expenditures required, practical experience required, knowledge of

By
Louis D. Corso, P.E.
CEK, Inc.

interfacing fields, potential liability, etc., etc., of an architectural or engineering firm designing and supervising a \$300,000 project at a 6% fee and a real estate firm selling four (4) \$75,000 residences each at a 6% fee. Shifting from the firm concept, let us compare, for instance, the knowledge, training and skill required of a mechanical designer to that of a letter carrier in the U.S. Postal Service. Assuming equal longevity, the average compensation in salary and benefits are similar. If our profession has hopes of maintaining high standards these trends must be reversed.

The difficulty of highlighting a problem is in proposing the solution. Unfortunately there does not seem to be any easy answer. Standardization of fee arrangements comes the closest to providing a solution. This approach, however, would be frowned upon by most outsiders.

While standardization of fees does not appear to be the answer, each consulting firm should make an

effort to evaluate its present fee policies. Certain fee procedures are detrimental to the profession. For instance, any fixed fee, lump sum, or fee limit approach should be avoided. This is for the protection of both the consultant and the client with the fact most projects are so unique, it is impossible to closely anticipate the consulting costs that will be encountered. Therefore if the consultant does not "Get Hurt" with the fixed fee, the client does, or vice versa. The best approach on fees are either cost plus or percentage of construction cost using realistic percentages. The competitive bidding of professional services is definitely a threat to lower professional standards, and should be resisted by practicing firms.

High professional standards are really the responsibility of each firm and each individual in the consulting service. The standards of each firm are set at the top level of the firm and it is the firm's principals who have the responsibility to elevate their employees to a station in life commensurate with their education, training and talent. This will only come to pass when each practicing consulting firm takes a realistic approach to fee determination. When this happens, high professional standards will be achieved with less difficulty than at present.

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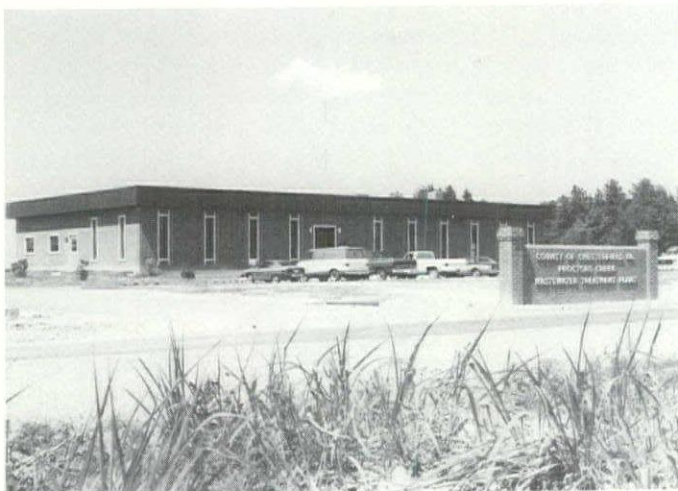
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CHESTERFIELD COUNTY is one of the fastest growing counties in Virginia, and in order to serve its expanding population, the Proctors Creek Wastewater Treatment Plant was conceived, designed and constructed. The plant serves an area of Chesterfield County which includes the communities of Chester, Enon, Kingsland Creek, Bellwood, Dutch Gap, and the Chesterfield Courthouse Complex.

The plant will replace several small lagoons and thus centralize operation and maintenance, as well as improve the quality of the county's smaller streams.



The Control Building, administrative and operational focal point of the plant.



The plant pump station was designed for low expansion costs.

When the county determined that the need for a centralized plant existed, it went ahead with an interim plant, funded entirely with county funds. Also constructed was a collection system and outfall, with the aid of a 75% grant from EPA. The interim plant, designed for a flow of 1.0 million gallons per day (MGD), went into operation in 1975.

The permanent plant is designed to treat 4.0 MGD initially, and eventually will handle a flow of 24.0 MGD. Construction started in September 1976 and start-up was scheduled for June 1979.

The Proctors Creek Plant is designed to utilize the site efficiently, while still maintaining a forested buffer zone which conceals most of the plant. Presently, only one-sixth of the ultimate plant is being constructed, but many of the special features make it easily expanded for higher flows and a higher degree of treatment. The design also includes many features to maximize operating efficiency.

The sewage flows first into the Plant Pump Station. This unit is designed to pump the present 4.0 MGD flow, but because of the limited area for expansion and the depth of the station, the structure was planned and constructed for flows up to 12.0 MGD. Eventually, an identical pump station will be built next to it.

The flow is pumped to an aerated grit chamber at the head of the plant where flow measurements are made and grit is removed. The grit chamber will separate sand and grit and automatically wash and load it into containers to be hauled to a landfill. Here also are provisions for a future flow equalization system, which will increase plant efficiency at the higher degrees of treatment.

The primary clarifiers remove settleable matter from the sewage before biological treatment. Two units are part of this project, with the accessories available for easily adding two more, and eventually a total of twelve.

The aeration tanks are the "reactors" of the plant where biological activity is sustained by mixing oxygen into the wastewater, thus removing most of the objectionable matter from the sewage. Biologically rich sludge from the downstream clarifiers is automatically recirculated to these tanks in proportion to the plant flow for maximum control and efficiency. The two aeration units presently constructed are part of a bank of four, and the splitter box can accommodate a total of eight units.

The final clarifiers are designed to separate and efficiently remove the biological sludge from the wastewater by "vacuuming" it from the bottom of the tanks. Here again, two tanks are provided with additional tanks easily added.

The cleansed effluent then goes to the chlorine contact tank to be disinfected before being discharged to the James River. Automatic control is used to accurately meter the correct amount of chlorine for the flow and desired disinfectant residual.

The sludge which is removed from the primary and secondary clarifiers is pumped to a flotation thickener. This device reduces the solids volume by more than half, resulting in higher efficiency and less required energy in the sludge treatment process.

From there solids go to the anaerobic digester, which reduces the sludge to basically water, ash, and methane gas. This unit has the unique advantage of producing its own heating fuel!

The solid residue is chemically treated and dewatered on a cloth vacuum filter. Chemicals are stored in large tanks, with the associated economy of buying chemicals in bulk amounts. An overflow tank was installed to protect against chemical spills. The liquid supernatant is chemically oxidized with chlorine before being returned to the head of the plant.

Almost all processes are monitored and indicated in the Control Building. Also housed in the building is a well equipped lab, administrative offices, and service areas. This, combined with a site communications system provides efficient centralized plant control and management.

The Proctors Creek Wastewater Treatment Plant was built at a cost of 7.6 million dollars, 5.7 million dollars of which is a grant from the Environmental Protection Agency.

Subcontractors & Suppliers

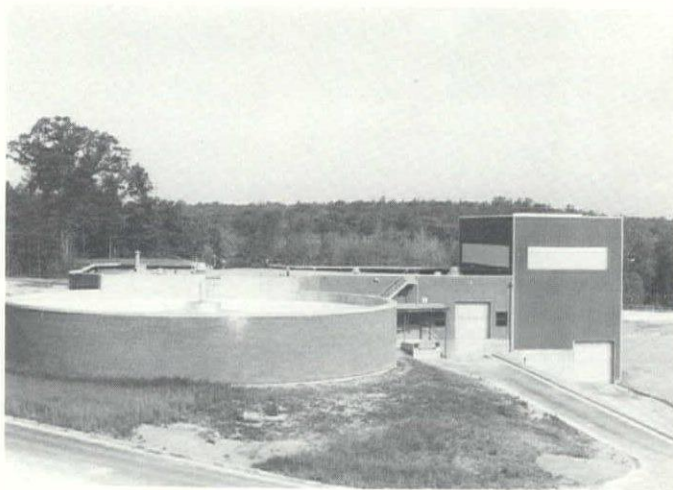
The subcontractors who worked on the plant are: Steve's Rebar Service, Palatka, FL, reinforcement placement; Eastern School Equipment Co., Ashland, cabinet work; Silversmith, Inc., Macon, GA, chlorine piping; Stonnell & Satterwhite, Inc., Richmond, quarry tile; Superior Roof & Sheet Metal, Richmond, roofing; Commercial Caulking, Richmond, window & door caulking; Consolidated Tile Co., Richmond, acoustical ceilings; PPG Industries, Richmond, glass & aluminum entrance; WACO Insulation, Richmond, pipe insulation; Bonitz Insulation Co., Inc., Greensboro, NC, perlite insulation; Alba Mechanical Contractors, Colonial Heights, pipe cleaning; and Engineering Sales & Service, Inc., Glen Allen, temperature controls.

Also, RRR Contractors, Inc., Richmond, reinforcement placement; Daniels & Ingram, Colonial Heights, masonry; Watts Contractors, Inc., Keysville, outside piping; Mason C. Day, Inc., South Boston, excavation & roads; Brothers C.C., Athens, AL, installation of digester covers; Catlett-Johnson, Inc., Richmond, HVAC & plumbing; Londeree & Jennings, Inc., Powhatan, paint & wall covering; Central Electric Service Corp., Richmond, electrical; Chewing & Wilmer, Richmond, controls; Shoesmith Brothers, Chester, paving; Curd Landscaping Service, Monroe, seeding; and Roanoke Engineering Sales Co., Roanoke, laboratory casework.

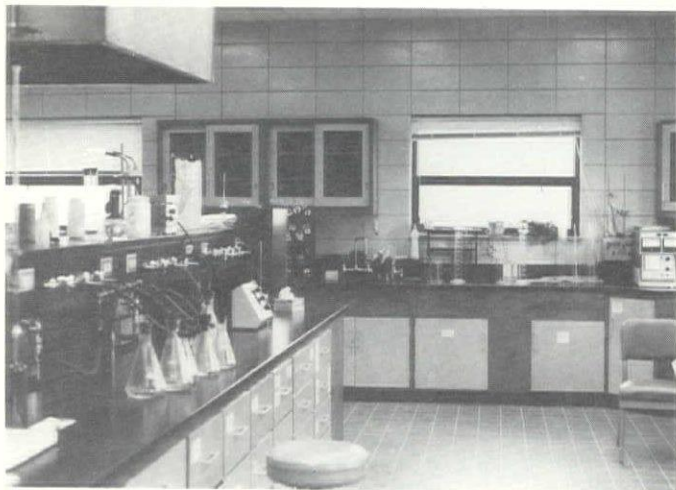
The major equipment suppliers are: Envirex, mechanically cleaned bar screen, flotation thickeners, digester floating covers & digester mixing system; Worthington, comminuters; Aurora, centrifugal pumps & sludge recirculation pumps; General Electric, motor control centers; General Electrical, variable speed controls (pump station); National Hydro, aerated grit chamber; Gardner - Denver, air compressors; Infilco Degremont, surface aerators; National Hydro, final clarifiers; Crane Deming, non-potable water pumps; Fluidtron, non-potable water

pump control; Chicago Pump Co., digester mixing system; Eimco, vacuum filters; BIF, lime handling & chemical oxidizers; Wallace & Tiernan, chlorination equipment; Hamilton, laboratory furniture; Dizurik, plug valves; Rodney Hunt, sluice gates; Robertshaw Controls, instrumentation; and Hamner Sound, Inc., Richmond, communication system.

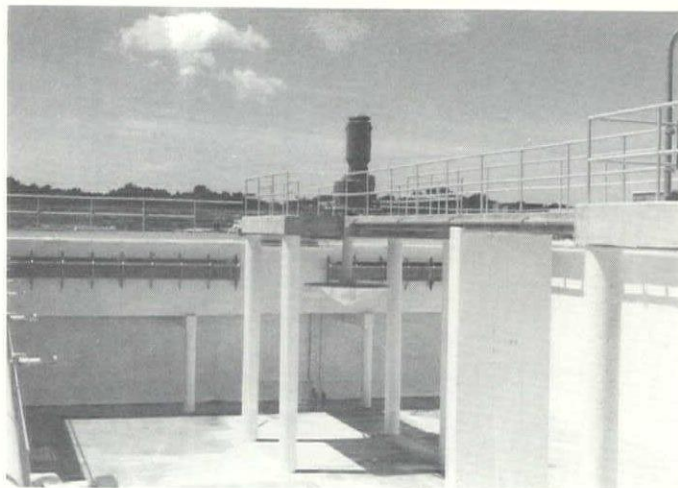
Material suppliers are: Lone Star Industries, Inc., Richmond, concrete; General Shale Brick Co., masonry; Economy Cast Stone Co., Richmond, stonework; Montague-Betts Co., Lynchburg, reinforcing steel; Barjoca, Inc., Elkins Parks, PA, steel joists; Martin Fireproofing Co., concrete roof plank; Northern Iron Works, Beehayres, PA, aluminum grating & handrail; Johns-Manville (Superior Roofing E.S.M.) roofing; Inland Architectural Products, Inc., Addison, IL, windows; The Ceco Corp., metal doors; Conalco, Reed City, MI, storefronts; Mobile Paint Co., paint; Vulcan Metal Products, Inc., Birmingham, AL, waterstops; Atlas Door Corp., Edison, NJ, rolling doors; Hamner Sound, Inc., Richmond, communication system; Reynolds Metals Co., Richmond, fascia & soffit; H. H. Robertson Co., Batavia, OH, metal building; Roanoke Rapids Pipe Supply, Roanoke Rapids, NC, metal pipe; Concrete Pipe and Products, Richmond, concrete pipe; Noland Corp., Richmond, plumbing fixtures; and Salem Concrete Products, Inc., Salem, manholes.



The Anaerobic Digester and Chemical Building, last stages in the waste stabilization process.



A view of the plant laboratory, which provides analysis for efficient control.



The aeration tank, the biological "reactor" of the plant.

New Water Supply Transmission Main For the City of Newport News

The following article, written by W. Douglas Ensor and Robert C. Dolecki, of Malcolm Pirnie Engineers, Inc., has also appeared in the AWWA Journal.

The City of Newport News is located in the southeastern part of the state, approximately 70 miles southeast of Richmond and 170 miles south of Washington, D.C. in the region known as Tidewater Virginia. Although the population of the city is only 140,000 the population served by the city's water system is in excess of 300,000, as the city's water service area encompasses the cities of Hampton and Poquoson, and the Counties of James City and York as well as the City of Newport News.

Since 1926, the year that the city acquired the waterworks property of a private water company, water supply in the area has been basically regional in concept. The Tidewater area has been one of the faster growing areas of the country and this growth has been reflected in the increased demands for potable water. Since 1950, average daily demands on the Newport News system have increased from 10.3 mgd to 36.8 mgd in 1977. Most estimates for the future indicate that average daily demands in the year 2000 will be about 55 mgd.

The Newport News system is basically linear in nature, with the bulk of the raw water sources at the northwesterly end of the service area and the

major part of the demand at the southeasterly end. From Chickahominy, Little Creek and Diascund, a raw water transmission main system, comprised of 36-inch, 39-inch and 42-inch reinforced concrete pipes, conveys raw water about 35 miles to the 44 mgd Lee Hall Filter Plant. This plant furnishes about 80 percent of the treated water required by the system.

It was recognized that as system demands increased, the need for additional treated water transmission main capacity would increase. The long range capital improvement program, established as early as 1968, provided for construction of a new main extending from Lee Hall Filter Plant about 16 miles to the downtown area of the City of Hampton. The main was designed to begin as 54-inches in diameter and reduce to 48-inches, 42-inches and 36-inches along the route. Construction of the main was planned to proceed in stages in order to spread the costs over a period of years. The first portion of the main, approximately 33,900 linear feet of 54-inch main and 4,700 linear feet of 48-inch main, was placed in service in February 1978.

The project was bid in two contracts of approximately equal lengths: Contract 25A in May

1976 and Contract 25B in August 1976. In each case prestressed concrete pressure pipe (SP-12) meeting the requirements of AWWA C-301 were specified. The city has had a long history of success with concrete pipe for transmission mains, both raw and treated water, that goes back to the initial installation in 1942. Because of this excellent record, the city requested that reinforced concrete be specified exclusively on this project.

On one contract, pipe manufactured by Price Brothers was utilized and on the other contract, pipe from Interpace Corporation was provided. As a consequence, two different types of harnessing were used on the job: the clamp type for 2100 feet on Contract 25A and the bell bolt type for 3800 feet on Contract 25B. Concrete thrust blocks were also used at a few locations. On this project, sandbags were used to form the thrust blocks. Harnessing design was based on a test pressure of 150 psi, or 50 percent above working pressure. The route selected for the pipeline involved a number of different construction conditions. The pipeline was installed in easements which required considerable clearing, in the shoulder of a heavily traveled state highway, necessitating considerable traffic control and rerouting, under several streams and drainage culverts and parallel and adjacent to an interstate highway. The work also entailed the installation of five tunnels: one under the main line of the Chesapeake & Ohio Railway; one under an industrial spur line; one under Interstate 64; and two under major State highways.

Because of the generally high water table in the area, well points were necessary at a number of locations along the pipeline route. Steel boxes were also utilized in some locations.

Also included in the contract was the relocation of approximately 1500 feet of 27-inch main. This pipeline, an SP-3 reinforced concrete cage pipe, originally installed in 1942, represented the primary supply for the southeastern portion of the service area. In one area, land on either side of the pipeline had been excavated for fill material over the years, leaving the pipeline in a berm. In spots, the new main was 6 - 8 feet from the old main, requiring utmost care during construction. After the new main had been completed the old main was relocated and lowered. This work was greatly facilitated by information obtained from records maintained by the pipe manufacturer, Interpace, and by the city's Department of Public Utilities.

Connections between the 54-inch main and the distribution system were made by the city. Coordination between the contractor and the city permitted the connections to be completed in a timely fashion and enabled the 27-inch main to be taken out of service and relocated.

One of the more difficult aspects of the construction was the crossing of the C & O Railroad at the origination of the pipeline. This involved the installation of about 132 feet of 78", 8 gauge tunnel liner plate under the railroad bed. Although for design consideration a 12 gauge plate was adequate,



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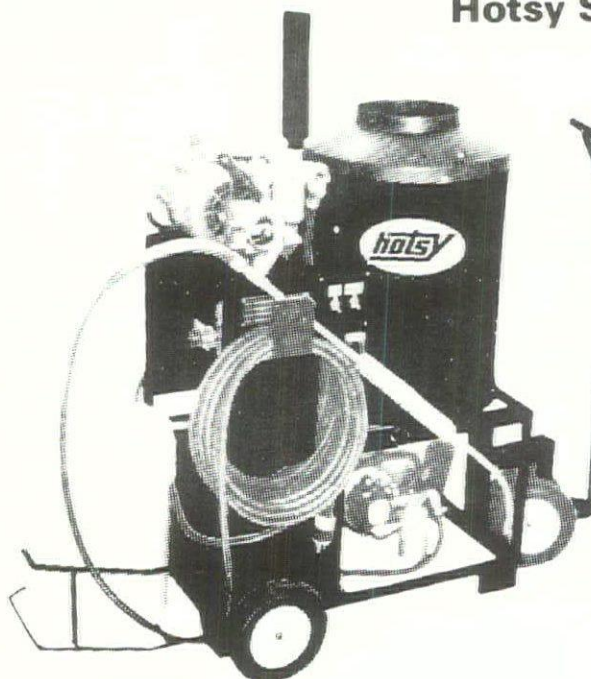
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the contractor elected to use 8 gauge because of its greater rigidity. A cement grout was placed behind the plates to fill any voids between the liner plates and the undisturbed earth around it. After the tunnel was in place, the pipe was installed in the tunnel, blocked in place and the ends of the tunnel were sealed with a brick and mortar bulkhead. The space between the liner plate and the pipe was then filled with cement grout with the exception of the tunnels under the railroad tracks where, in accordance with AREA requirements, cast iron riser pipes were installed for leak detection purposes.

From beginning to end, the project required the close coordination of a number of parties. During the design stage, input was received from gas, electric and telephone utilities in the area as well as from the city's Department of Public Works with regard to existing and future drainage structures. This permitted construction of the main to be accomplished with almost no utility conflicts and provided adequate clearance for construction of future drainage structures.

The city's Traffic Department assisted in the formulation of traffic control plans which permitted, in one case, the reduction of the length of tunnel required to cross a major thoroughfare, and in another the open cutting of the entire crossing of a major four-lane highway. Each resulted in a considerable cost savings to the city.

This open cut crossing was achieved through a traffic channelization scheme which maintained three lanes of traffic at all times while construction was proceeding. The traffic lanes were shifted as the pipe was installed, backfilled and temporary pavement placed across the roadway. The work was completed and full traffic flow restored in three days.

One feature of the design that proved to be beneficial was the provision in the specifications that the contractor provide spacer pieces for installation in the main line valve locations, thus eliminating delays due to the lengthy delivery times for butterfly valves. By providing these spaces with victaulic ends, the contractor was able to lay pipe without having to leave gaps in the pipeline and to cut closure pieces. Where the valves were available, the spacer pieces were removed and the valves installed. Pressure and leakage tests were performed on the two sections of pipeline from one main line valve to the next. Only two minor leaks were discovered, one requiring the tightening of bolts on a mechanical joint connection and the other requiring the welding of a pipe joint.

Although it was originally anticipated that the disinfection of each pipeline contract would be accomplished separately, as it turned out each contract was completed at about the same time. Through the cooperation of the two contractors the entire pipeline was filled and disinfected at one time. Chlorine concentrations of between 50 and 75 mg/l were achieved throughout the pipeline. The highly chlorinated water was discharged to a small stream which feeds Lee Hall Reservoir.

A minor problem was experienced in filling the pipeline with the required 4.5 million gallons of

water. The air vents which were provided were comprised of 2-inch threaded steel outlets in the pipe, 2-inch corporation stops and 2-inch air release valves. The corporation stops were manually operated to release air during the filling operations, but because of the small openings this took a considerable length of time.

Considering the size and complexity of the project, construction operations proceeded very smoothly. This can be attributed to the cooperative efforts of the consulting engineer, pipe manufacturers, contractors and Departments of Public Utilities, Public Works and Traffic of the City of Newport News.

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THE USE OF FILTER FABRIC SEDIMENT STRUCTURES

By: Dennis D. Willis, P.E.
Vice President, Mining Engineering
Thompson & Litton, Inc.

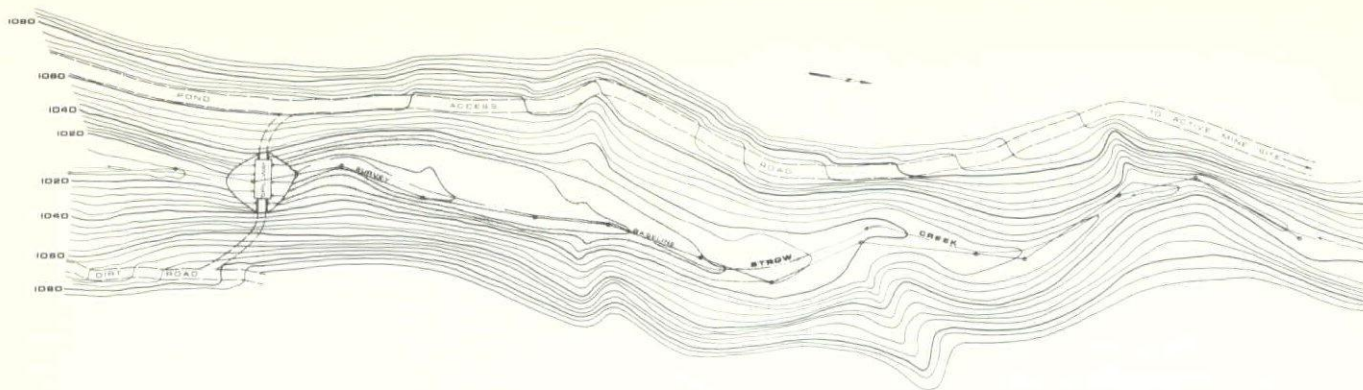
Since the implementation of Public Law 95-87 "Surface Mining Control and Reclamation Act of 1977" and its associated regulations, each surface mining operation must comply with strict water quality standards for all sediment structures for the protection of hydrological balance of area streams. Suspended solids in surface mine runoff are not to exceed seventy milligrams per liter. The daily average value for thirty consecutive discharge days may not exceed 35 milligrams per liter. Runoff from precipitation events greater than a ten year/24 hour frequency storm are not subject to these effluent limitations. Both the maximum allowable suspended solids and the daily average suspended solids are based on representative sampling. Bostic Coal Company, a surface miner, operating in Russell County, asked Thompson & Litton to determine whether their mining operation could comply with the laws and still continue to operate economically. Bostic had a mining permit covering approximately 250 acres. A substantial portion of the permitted area was classified as mountaintop removal. Because of the vastness of the operation and the need for hollow fills to be used as a place to store overburden, some type of sediment structure needed to be constructed in order to meet the effluent limitations. Because of the steep terrain

in the area, space for the use of conventional sediment structures (such as the riser type sediment pond) was not available. Additionally, because of lack of suitable material, an impounding-type sediment structure would not be economical.

Bostic had imposed two requirements: (a) meet the requirements of the law regarding water quality and storm design capacity, (b) the method used must be economical in order that the operation could continue to operate profitably. Actually, three alternatives were available, either of which would comply with Public Law 95-87. These were: 1) to either suspend mining operations and go out of business; 2) build a prohibitively expensive sediment structure according to existing state and federal regulations; or 3) develop an innovative alternative design to control sedimentation.

An alternative design was developed utilizing sandstone rock, readily available in this operational area, and filter fabric which can be easily installed. By the use of simple construction techniques, the cost of the sediment structure was relatively low.





PLAN VIEW OF SEDIMENT STRUCTURE

FILTER SEDIMENT STRUCTURE

It was necessary that the structure control sediment, yet obtain design capacity of less than twenty acre-feet. According to the law, any impoundment greater than twenty acre-feet falls under much more stringent design criteria and thus requires more site exploration and design calculations. Another consideration in designing the filter fabric sediment structure was the steep terrain. The design met these criteria, yet incurred a minimum amount of expense and disturbance to the environment. Due to the size of the coal reserve being mined, the required useful life of the structure was estimated to be from three to five years.

The structure utilizes sandstone boulders, 24 inches or larger, as a core with a thin layer of smaller sandstone or gravel upstream. The filter fabric is placed directly on the smaller stone and then covered with another layer of small stone or gravel. The final layer of gravel protects the filter fabric when the sediment

pond is cleaned and also protects the filter fabric against possible damage from exposure to direct sunlight.

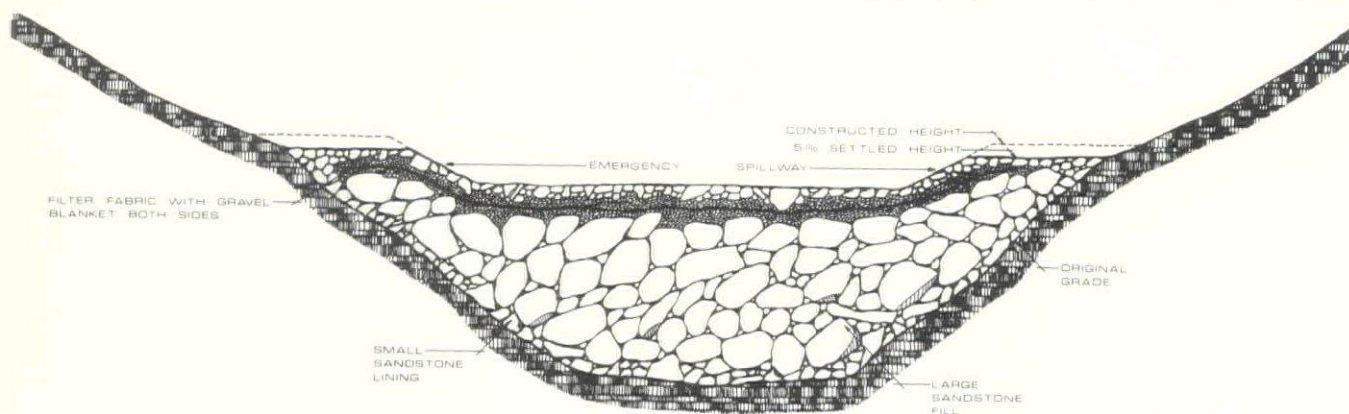
Water flowing into the area is held back by the sediment structure and then allowed to pass more slowly through the filter fabric. Sediment is either deposited upstream by means of settlement or removed by filtration through the filter fabric.

The sediment structure is designed so as to allow overtopping without danger or damage. There is no need to construct a separate emergency spillway.

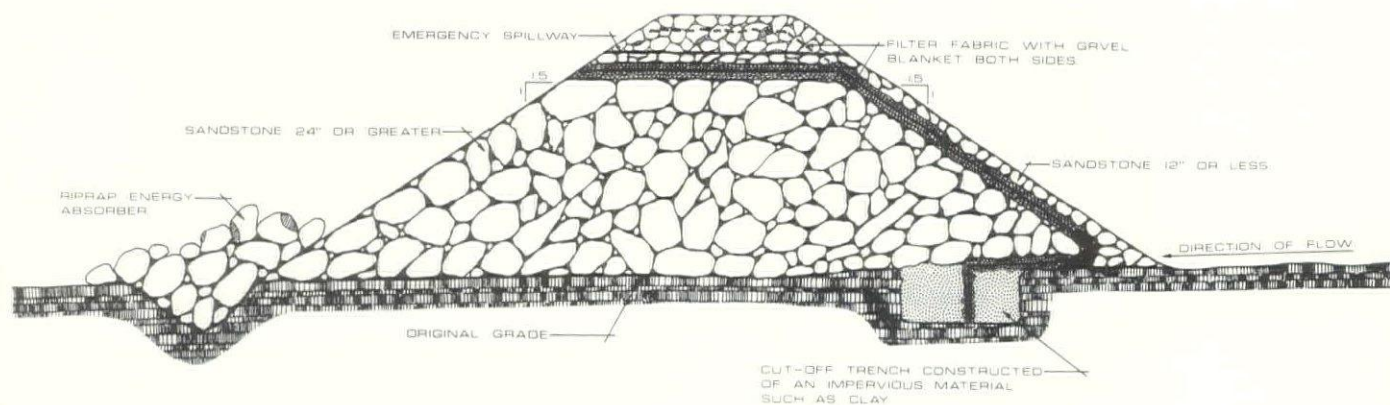
There are several advantages and some disadvantages to the use of a filter sediment structure. Some disadvantages are as follows:

Sandstone, as a construction material is needed in order to obtain the best filtering results and still allow structure to be cost-effective.

Sandstone of the proper quality is not always available at the mining site



SEDIMENT STRUCTURE-PROFILE



SEDIMENT STRUCTURE-LONGITUDINAL SECTION

and would have to be quarried at some other location and transported a considerable distance. Even sandstone available on the mining site must be hauled to the location of the structure. At some mines this presents no problem, but at others, it can be quite costly. Once the sediment structure has been constructed and put in use, it may need to be cleaned. Care must be exercised in such cleaning so as not to damage the filter fabric. Finally, the filter fabric will not remove extremely small sediment particles such as those produced in clay material.

Advantages of filter sediment structures include the following considerations:

Construction techniques are simple and may be accomplished by the miners' own workers. Minimum compaction is required. The use of filter fabric decreases construction difficulty by eliminating need for graded filter zones. The structure is relatively inexpensive as compared to earth embankments. (Filter fabrics cost from eight cents to 33 cents per square foot.) The use of sandstone boulders allows the side slopes of the filter structures to be much steeper than an earth embankment (1½ to 1 versus 2½ to 1). This gives increased sediment capacity per foot of structure height, a very important factor on the steep slopes of Southwest Virginia. No principal spillway such as a riser and drainpipe is needed, since the fabric and rock allow the water to seep through the structure itself. The

emergency spillway is placed over the center of the structure, thus eliminating the need to excavate additional material for an emergency spillway. When steep slopes are present, construction of emergency spillways is often very expensive. Even when cut in solid rock, they must sometimes be rip-rapped or paved. The cost of construction of a similar filter fabric structure is approximately \$12,000 as compared to an estimated construction cost of \$36,000 for an earth embankment structure. Some mine sites require several such structures.

The filter fabric sediment structure that was constructed by Bostic Coal Company during the fall of 1978 is successfully meeting the effluent limitations established by the Federal Surface Mining Regulations. This particular structure was designed for a 25-year frequency storm with a detention time of ten hours. The constructed sediment basin has a capacity for 6.2 acre-feet.

By the use of filter fabric and sandstone available near the operational site, this mining operation has demonstrated that other such operations in Southwest Virginia may be able to meet the effluent limitations required by Public Law 95-87 for approximately one-third the estimated construction cost of conventional earth embankment type structures.

The Bostic Coal Company's structure received a grand concept award from Virginia's Consulting Engineers Council in 1979 for excellence in innovative design.

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In 1968 a dream was forming in the minds of several farsighted civic leaders in the counties of Dickenson and Buchanan located in Southwest Virginia. That dream was to supply the citizens of those counties with an ample supply of quality water. The seed from which that dream was forming was planted by the Farmers Home Administration which at that time was encouraging local government to take a look at planning for development of rural utilities on a county-wide basis.

In the spring of 1968 the engineering firm of Thompson & Litton, Inc. was contacted to prepare a comprehensive plan for the development of a water source and a water distribution system which was to serve Buchanan County. That plan was completed and presented to the Buchanan County Planning Commission and Board of Supervisors in January 1969. That plan recommended the John Flannagan Reservoir as the best possible existing water source to serve Buchanan County and also to serve Dickenson County.

In June of 1969 the Buchanan County Board of Supervisors passed a resolution to establish the Public Service Authority under the provisions of the Virginia Water and Sewer Authorities Act for the purpose of providing any or all of the utilities and services authorized by said act. By December of 1969, the Corps of Engineers had agreed that their



Groundbreaking

John Flannagan Reservoir could be used as the source of raw water for the Bi-County water project, and Thompson & Litton was authorized again by the County Board of Supervisors to prepare more detailed studies.

A preliminary plan was presented in 1970. This plan again stated that the John Flannagan Reservoir was seen as the best source of raw water because of the low population and the watershed, cleaner water and its proximity to the population centers of each of the two counties. It also proposed two tanks to be located at Lovers Gap in Buchanan County and a number of pump stations. The plan covered a

water transmission and distribution system that would serve the entirety of Buchanan County.

In 1972 the dream was still growing in the minds of civic leaders. It was at that time that the Town of Clintwood in Dickenson County began thinking about purchasing water from the future John Flannagan Water Treatment Plant and made plans for the construction of a water line which would eventually connect the town with that plant.

The construction of that water line was completed in June of 1976 and the line became somewhat affectionately known as the "dry line" because at that time the John Flannagan Water Treatment Plant was still in the early stages of planning.

It was in 1972 also that the John Flannagan Water Authority was organized for the purpose of implementing the construction of a major water filtration plant near the John Flannagan Reservoir and wholesaling water to agencies within the counties. At about this same time the agencies of the Farmers Home Administration and the Appalachian Regional Commission began believing in this dream too. They believed in it to the point that they funded it.

In April of 1978, the ten year dream of the farsighted men became a reality with the beginning of the construction of the first phase of the Bi-County Water System. It was at this time that ground was broken at the John Flannagan Water Treatment Plant and on the water transmission line which was to be constructed from the John Flannagan plant to the Town of Grundy in Buchanan County. This first phase of the Bi-County project is scheduled for completion this year.

In May of this year the Town of Clintwood started construction on the last mile of their "dry line" which will complete their hook-up with the John Flannagan Plant, thereby making them the first customer of the John Flannagan Water Authority's operation.



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The Cruel Delusion (From page 5)

Going from telegraph operator to railroad clerk, Carnegie entered the iron business in 1864, and during the 1870s began operations for making steel by the new Bessemer process. Around the turn of the century he sold out his interests to what became the U.S. Steel Corporation. Retiring at 61, he, like Rockefeller, devoted his later years to philanthropy, in which he gave a tremendous impetus to public libraries.

These vignettes would not be complete without a Vanderbilt. Cornelius (1794-1877), the founder, was born on Staten Island in a humble background and at 16 owned a small vessel which plied between Staten Island and Manhattan. Forty years later (1850) he was the largest steamboat operator in the country and established (like Rockefeller) a monopoly. In 1864 (next to the last year of the Civil War), he shifted his interests to railroads and became the first president of the New York Central (to Chicago).

The descendants of the acquisitive "Commodore" Vanderbilt in "conspicuous consumption" vied with the descendants of German-born John Jacob Astor (1763-1848). Coming to New York at 20, through his highly successful fur trading, Astor ultimately owned farmland that became the heart of Manhattan. By the turn of the century their names became synonymous in the public mind with "rich high society."

Taking as examples these four fortune-builders (two of whom were immigrants and Vanderbilt

doubtless of Dutch stock), who started in the Old America, the sprawling nation of infinite natural resources could readily be seen as "the land of opportunity." Of course we know that few individuals possessed the amalgam of traits — outsized greed, ruthless self-discipline in fulfilling it and an unwavering concentration on ways of exploiting and manipulating their fellow mortals — to turn equality of opportunity into vast inequalities in fact.

But as the Old America did not totally disappear at the end of the Civil War, and the emerging New America did not take shape immediately, many characteristics of the Old America, with its European traditions, continued well into the 20th century. Strong among the inherited traditions was the acceptance of a reality that only a few could or would be very rich, the majority desired more or less modestly, and the poor we would have with us always. Many fortune builders, even in Colonial days, regarded the poor as shiftless, without ambition or desire for work, with a few needy cases — where old age or physical handicaps or some disaster beyond their power to control had brought them down — received charity from the parish to which they belonged. Down-and-outers who were strangers to a parish were encouraged to move on.

Coming into our own time, we have not got a new America in the sense of evolving from the old, or in the sense of being truly a successor to the Old America. With the growth and spread of giant cor-

porations (including the agricultural combines which have largely replaced the farmer with his mule and plough), with the phenomenal rise of service industries (which must include the dis-service industries of proliferating bureaucracies from sea to shining sea), with the growing power and ambitions of labor unions (reaching into municipal services and toward the armed forces), we have become an affluent society that sprawls from the top levels of the comparatively poor (that is, they are economically categorized as poor) to the upper echelons of the rich. Even in the new "class" of those more or less permanently on welfare and other hand-outs from the government, the visions of affluence show a baleful effect in the consciencelessness of their criminal activities as a means of getting in on the frills of the Affluent Society.

In comparing this society to any American society prior to the Great Depression, it is difficult to define it as any kind of "culture." Not only are our cities (the hearts of a nation's culture, from Athens and Rome, to London and Paris) declining into decay, with spots of ruins, but those who have fled the cities or never known them regard these historically cultural arteries with aversion and scorn, even hatred.

Our national government, despite the scattering of a few honest, able individuals, is a sad joke on representative government. Who is represented by the irresponsible spenders and the free-loaders with

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tax-payers' money? As if to top off their idiocies, huge agencies of bureaucrats are forever tampering with our human institutions, with our educational institutions — from kindergarten to graduate schools — the most steady target of their manipulation of our "civilization."

If, then, "A civilization must attain its proper form before it can create the education which will reflect it," all the billions spent on the education industry do

not give it a civilization to reflect. I do not subscribe to that theory because I read it in a book of learned essays. Rather, the essay quoted from confirmed an opinion which had been growing stronger over the past few years.

Prior to that I held a deep interest in the educational process and high (though gradually dimming) hopes of what it might accomplish among our citizens. Now, I never read an editorial in any

newspaper, an article in any magazine or any book, on the subject of education. As in our lunatic Congress, most discussions on education are concerned with money, more and more money, and only peripherally if at all with the problem of forming a civilization which education can reflect.

Over the past forty-five years, American citizens have grown habituated to the government attacking every problem with money and managing to create the illusion of being in benefic control of our fates, despite all evidence to the contrary, such as 40% unemployment among black ghetto inhabitants.

In the looting riot in New York during the blackout on a sweltering July night, what most impressed the onlookers was the attitude of the looters that they were only getting their "due," even though the victims were all in the looters' neighborhoods, where most of the 1,000 plus fires were started. Thus, while some sociologists might offer the excuse of the anger of the poor at the discriminations of the rich, the rioters themselves regarded their costly frolic as "Christmas in July."

In reading about the looting (some of it senseless) and the wanton vandalism, what impressed me most was the utter indifference of the rioters to the already losing struggle for existence of what should have been *their* city. For their total disassociation from the whole community and any responsibility to it cannot be a local phenomenon isolated in New York.

I believe this irresponsibility toward a community and the total absence of any personal moral values can only be a symptom of an explosive strain running through our "culture." With all the affluence around, and all the talk of affluence, in this New America, poverty is not accepted as a natural condition in any society. At the same time the equality of opportunity which produced our early fortune-builders is viewed, with some justice, as fraudulent today. This concept of fraud is partly held because many — of all races, colors and creeds — accept equality of opportunity to mean equality in everything *now*.

Our "after me, the deluge" government, in its effort to keep everyone contented by supporting this delusion, has done its best (or worst) to transform schools and universities (including their graduate studies for professions) into instruments for perpetuating this cruel delusion. The result has been to transform our educational system, as another industry, into part of the chaos of a polyglot society, whose anthem might be the lyrics of an old song: "The rich get richer, and the poor get children." For a certainty, segments of the disunified society are struggling against the attainment of "proper form" of a civilization that education could reflect.

To avoid ending on such a hopeless note, it might be suggested that we start all over with education free of politics. But that would be Utopian, since nothing is free of politics — not even the politicians of good intentions. For, when political manipulation entered the doors of the educational system, learning and moral standards began leaving by the window.

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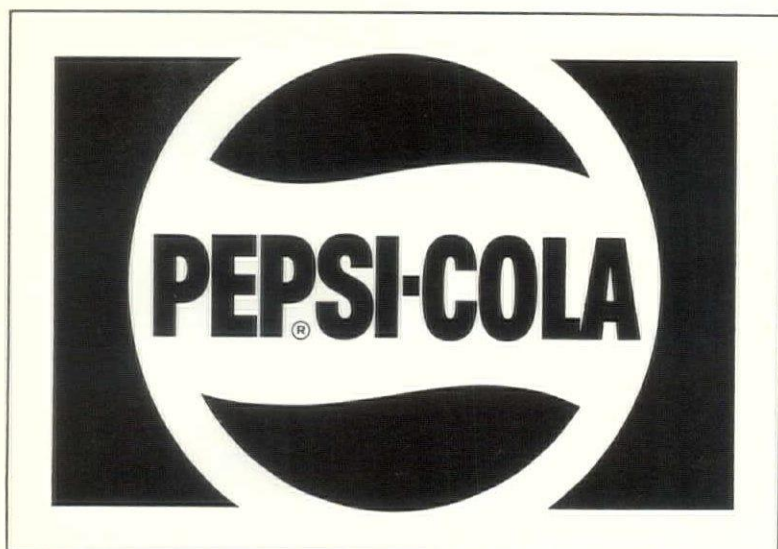
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