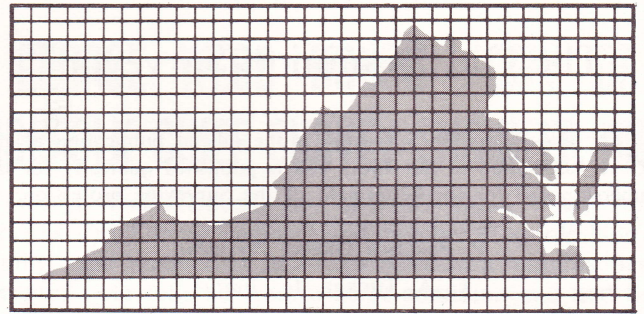


THE OLD DOMINION SURVEYOR



VOL. I, NO. 2

OCTOBER, 1965

BARTENSTEIN NOMINATED FOR VAS PRESIDENT



John H. Bartenstein

John H. Bartenstein, the nominee for President of the Virginia Association of Surveyors for the year of 1966, was born in Fauquier County, July 28, 1925. He attended public schools in Warrenton, Virginia, and V.P.I. before being drafted into the Armed Services. He served in the European Theater with the 97th Signal Battalion as a radio operator.

After the war was over Jack returned to the United States and was discharged as a technician third grade. For the next several months he worked for the Blackwell Engineering Company of Warrenton, and his father on sev-

eral surveying projects. In the fall of 1946 he entered the University of Virginia having decided to go in to Civil Engineering. In 1950 he graduated with a Bachelor of Civil Engineering degree.

During the summer months he worked with the Engineering Department of the Chesapeake and Potomac Telephone Company, the Virginia Department of Highway Research Laboratory in Charlottesville and occasionally with his father.

In the fall of 1950 he went with the Construction Department of E. I. DuPont de Nemours Co. as a engineer in training.

In the fall of 1951 he was employed by his brother, R. M. Bartenstein, who had just recently set up a consulting and surveying firm of his own. Jack is now a partner of the firm which is now known as R. M. Bartenstein and Associates.

Since this firm is located in a relatively rural area the work has varied and Jack's practice has covered a wide area in the field of surveying.

Jack has been active in local civic affairs, having served with the Warrenton Town Council for three years, and is past president of the Warrenton-Fauquier Chamber of Commerce.

He was the secretary and treasurer of VAS in 1957 and 1958. He is now a member of the Shenandoah Chapter. He is also a member of the American Congress on Surveying and Mapping. For the past two or three years he has been working on a program which it is hoped will bring the State Statutes pertaining to the surveyor to modern standards.

In November of 1953, Jack married Elizabeth Dietz of Leaksville, North Carolina and now has four children ranging in age from four to eleven—making a good prospective field party.

The Old Dominion Surveyor

"The Old Dominion Surveyor" is the official publication of the Virginia Association of Surveyors and is published quarterly for the membership and for the betterment of the Surveying profession.

P. PORCHER GREGG, *President*

C. A. THORPE, JR., *Editor*

Address all articles to The Old Dominion Surveyor, P. O. Box 278, Falls Church, Virginia.

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For VAS Membership write Millard G. Smith, Sec.-Treas., P. O. Box 5601, Norfolk, Virginia.

PRESIDENT'S MESSAGE

1966 is gradually slipping away, and even though much has been done by the members of VAS this year, there is considerable work left to be done before the Annual Meeting in January. This fact was made quite clear at the



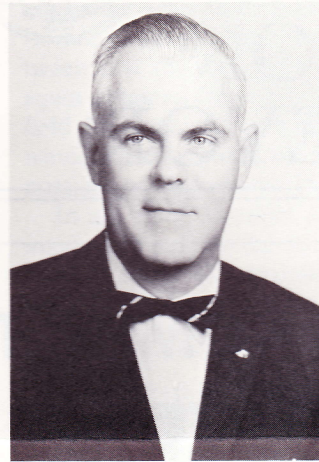
Porcher Gregg

Fall Board Meeting held in Richmond on October 2nd. Many facts pertaining to this meeting will be published elsewhere in this paper so I will not repeat them.

Since the last issue of "The Old Dominion Surveyor" death has claimed two members, Mr. Stephen Boyd from the Shenandoah Chapter, and Mr. George Boush from the Tidewater Chapter. They will both be missed very, very much.

Plans are well underway for the Annual Convention to be held in Williamsburg, January 20-23, 1966. It is sincerely hoped that every member of VAS will make plans now to attend this meeting with your families. There will be much business to discuss which I am sure will be of extreme interest to everyone. A tentative program has been formulated and will be announced in the next issue of *The Old Dominion Surveyor*. Also advanced registration will be initiated this year, and it is hoped that all of you who plan to attend will process the advanced registration forms.

COOK & ROUDABUSH FOR V.P.



George F. Cook, Jr.

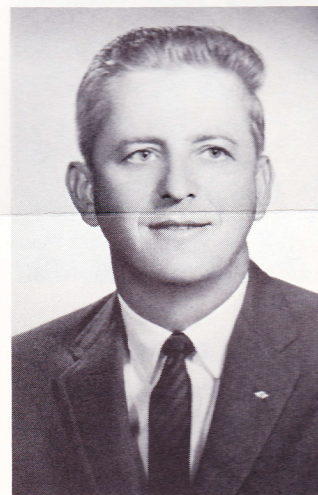
Selected by the Board of Directors as one of the candidates for Vice - President, George F. Cook, Jr., was born in Arlington County, Virginia, November 3, 1920.

Educated in Arlington County Public Schools, he attended the University of Virginia from 1938 until 1941. Cook left the University in 1941 to serve with the Marine Corps during World War II. At the end of the war he returned to Arlington and continued his college education at George Washington University.

Registered as a Land Surveyor in Virginia since 1947 he also received his 3 B registration in 1958.

Employed by Carson V. Carlisle from 1946 to 1964, he is now in partnership with Carson V. Carlisle, having formed the firm of Carlisle and Cook of Arlington, Virginia.

George has served as President of the Mount Vernon Chapter of VAS, and as chairman of the committee on Education of VAS since 1963, in addition he holds membership in American Congress of Surveying and Mapping.



William S. Roudabush, Jr.

The President of the newly chartered Monticello Chapter has been nominated for the Vice Presidency of VAS. William S. Roudabush, Jr., 37, is married, has one daughter and resides at 914 Monticello Road in Charlottesville, Virginia.

Registered as a Land Surveyor in Virginia since 1954 he was past Director of the Western Chapter of VAS.

Formerly Assistant City Engineer of Charlottesville he is also a member of Masonic Lodge, Shrine, Elks, American Legion and Past President of Charlottesville Educational Foundation.

William Roudabush graduated from University of Virginia in 1952 with a Bachelors degree in Civil Engineering.

SECRETARY-TREASURER NOMINEE

Thomas D. Blue was born in Charlottesville, Virginia, October 10, 1935. Attending public schools in Albemarle County, he went on to enroll at the University of Virginia where he was awarded a degree of Bachelor of Civil Engineering in 1957.

Following college he worked as a field engineer for Stone & Webster Engineering Corporation at the Yorktown Power Station. Tom served two years with the U. S. Army before returning to Charlottesville and becoming employed by the U. S. Geological Survey.

In 1961, he became an assistant City Engineer for the City of Charlottesville, where he worked until he formed his own engineering and land surveying business in March, 1963. In September, 1965, the firm became Blue & Finley when Tom took in William W. Finley, Jr., also an engineer and land surveyor, as a partner. Tom is married, has two children and lives in Albemarle County, Virginia. He is a registered engineer and certified land surveyor. He is a member of the American Society of Civil Engineers, Sky Line Chapter—Virginia Society of Professional Engineers, Charter Secretary-Treasurer and Secretary-Treasurer nominee of the newly formed Monticello Chapter, VAS, and a member of the First Presbyterian Church, Charlottesville, Virginia.

TWO YEAR VAS DIRECTORS

Nominated for the position of 2 year Director, Millard Smith is well known throughout VAS. As Past President of the Tidewater Chapter he is at present State Secretary-Treasurer of VAS.

Millard attended Virginia Military Institute and Harvard University. Upon finishing the University he was employed by the City of Norfolk for 5 years in the Division of Surveying. For the past fifteen years he has been in private practice with associates.

The President of the Mount Vernon Chapter of VAS, Ashton L. Wood has been nominated to fill the position of 2 year Director of VAS.

Born in Gordonsville, Virginia, in 1921, he finished primary and high school in Gordonsville.

"Woody" was employed by Virginia Highway Department for 3½ years doing surveying and in the Survey Division of Arlington County for 2 years.

Associated with James D. Payne for 8 years he is now a partner in the firm of Payne & Associates.

Wood received his certificate in 1958 and in 1961 was awarded his 3 B Certificate.

GEORGE WEBB BOUSH—CITY OF NORFOLK CHIEF SURVEY ENGINEER DIES

George Webb Boush, 66, of 1537 Quail Point Road, Norfolk City Survey Engineer and member of an old Norfolk family, died Wednesday at 11:20 A.M. in a Virginia Beach Hospital. He suffered from a heart condition and had been hospitalized for several weeks.

For many years, he had been associated with the City of Norfolk, having worked in various capacities within the Survey Department through its early stages of development. Mr. Boush became Chief of the City's Survey Department and was the prime developer of one of the best records system of its kind in the nation. His association with the department he loved continued since 1918. After public schooling in Norfolk, he completed correspondence work in Civil Engineering.

He was a member of the American Congress on Surveying and Mapping, Virginia Association of Surveyors and Engineers Club of Hampton Roads.

S. M. BOYD, JR., PASSES AWAY AT FRONT ROYAL

Stephen Miller Boyd Jr., prominent Front Royal resident, died unexpectedly at his home on the John Marshall Highway late Monday afternoon, September 6.

At the time of Mr. Boyd's death he was chairman of the Warren County Electoral Board. Active in community affairs, he had served as Warren County surveyor, was a member of the county's first planning commission, a former chairman of the county school board and had been on the hospital's board of managers. He served his church, the Front Royal Methodist, on its Board of Stewards.

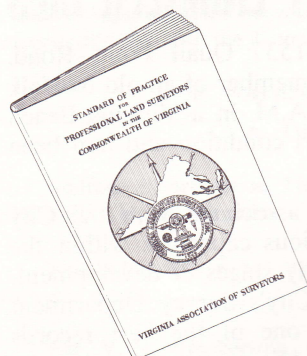
Mr. Boyd was graduated from Virginia Polytechnic Institute, Blacksburg, in 1916 with a degree in civil engineering. He was a veteran of World War I, a member and past master of Front Royal Lodge 146 AF & AM, and a member of the Front Royal Rotary Club.

Carter Memorial Scholarship Fund Well Received

The Reverend John H. Grey, Minister of Williamsburg Presbyterian Church has written expressing his thanks to the donors of the Carter Memorial Fund. This living memorial will be a means of helping young people for years to come.

To date over \$300.00 have been received and President Gregg greatly appreciates the part various members of VAS have had in this memorial to one of our most respected members.

Standards of Practice Approved by Board



The Board of Directors approved the general layout, content, and cost of the forthcoming "Standards of Practice for Professional Land Surveyors in the Commonwealth of Virginia." The Board also approved the recommendation of the Manual Committee that, inasmuch as VAS was sponsoring this Standard of Practice for the entire Commonwealth, the acquisition of a copy should be a requirement of mem-

bership in VAS and that a referendum on this requirement should be held and voted on by all members at the time of balloting for the 1966 officers. New members would be required to purchase the "Standards" at the time of initiation into VAS.

The headings of the several Sections of the Standards are as follows:

- I. The Role of the Land Surveyor
- II. Identification of Governing Groups
- III. State Statutes
- IV. Client Relationships
- V. Legal Aspects of Land Surveying
- VI. Relationships of Government Agencies to Private Land Surveyors
- VII. Field Procedures
- VIII. Office Procedures
- IX. Surveyors Plats
- X. Miscellaneous

The Standards will be available at the Annual Meeting at Williamsburg in January. The contents will not be complete, but all available material will be inserted in the loose leaf 6 x 9 inch cover.

The price of the Standards to the Membership of VAS will be \$10.00 or cost plus 25%, whichever is higher, and the price to those not members will be a minimum of \$20.00. This cost is final and no charges for additions or future changes would be made, but will be supported by savings in the publication of the Directory and VAS dues structure in the case of Members, and by the extra \$10.00 charge to those outside VAS.

Qualifications for Admission to Examination to Practice Land Surveying

The following is taken from Section C of the Land Surveying Section "Rules and Regulations" as issued by Department of Professional and Occupational Registration.

ARTICLE 1 *Qualifications for Admission to Examination 54-17, 3(a)*: An applicant, in order to apply for a Certificate to practice Land Surveying, must

- (a) Submit evidence that he:

- (1) Is a citizen of the United States or has declared his intention of becoming such citizen,
- (2) Is at least twenty-one (21) years of age,
- (3) Is of good character,
- (4) Has had training and experience in land surveying work which in the opinion of the Board qualifies him to take the examination, and

- (b) Pay the statutory fee required for the examination.

ARTICLE 2 *Evidence of Citizenship*: Evidence of naturalization of the applicant as a citizen of the United States, or evidence that the applicant has made a legal declaration of intent to become a citizen, shall be presented by notarized affidavit, not by original document or facsimile thereof.

ARTICLE 3 *Evidence of Character*: Evidence of the good character of the applicant shall be supplied by five or more authoritative references, of whom at least two shall be registered as Certified Land Surveyors in the Commonwealth of Virginia and the remaining three preferably shall be registered in some state or territory.

ARTICLE 4 *Evidence of Training and Experience in Land Surveying Work*: An applicant, in order to be eligible for admission to the examination for land surveying under Section 54-17, 3(a), shall qualify under both of the categories of training and experience as follows:

- (a) He shall present evidence of ten (10) years training and experience in land surveying work as defined in Article 1, Section B, and of a nature and character satisfactory to the Board. Each year of an accredited curriculum satisfactory to the Board in high school, technical institute, and/or college in surveying, geodesy, mapping, or other related curricula successfully completed shall be equivalent to one year of training in land surveying, but in no case shall the experience in land surveying be less than two (2) years.

- (b) He shall present evidence of the successful completion of accredited or acceptable courses in *surveying, geometry, trigonometry, and algebra* of a nature and character satisfactory to the Board.

VAS Establishes Surveyors Hall of Fame

The establishment of a Surveyors Hall of Fame by the Directors of the VAS took place at a recent meeting in Richmond.

Mr. David Dick, Chairman of the Committee to establish this worthwhile monument explains its function as follows:

We, who today practice the profession of land surveying, know how much our present work depends on the skill and integrity of the surveyors who went before. So often we know nothing about them except that they surveyed land, made plats and wrote descriptions. Few of us know the problems they had and with what skill they solved them. Many were not learned men and many had only a rudimentary education. Their equipment was simple and not comparable to ours in accuracy and yet many served the public with professional skill and ministered to their needs even as you and I do today.

Dulles International Airport—A Progressive Monument In Property Surveying



Herman L. Courson

Herman L. Courson Addresses the ACSM Meeting. Gives Report on Dulles International Airport.

Dulles International Airport (or Chantilly Airport as it was originally called) was conceived and born in controversy which created the sense of urgency that existed throughout the planning, surveying, acquisition, design and construction stages. The need for further airport facilities in the Washington Area was undisputed, however, the location of these facilities was a subject of argument for some five years. A site was picked near Springfield, Virginia, and acquisition of the land was started only to have the effort stalled by extreme pressure from citizen groups and others. The site at Chantilly was selected sometime later, and when plans were put into operation, everyone connected with the project was late to begin with.

The contract, as negotiated with the Land Acquisition Branch of the Department of Justice, called for the survey and platting of some 8,000 acres involved within 75 calendar days from the beginning of the contract, using not less than five field crews and attendant office personnel.

The requirements were:

1. A plat and updated description of each tract involved. Where a tract was cut by the Airport line, the plat would show both the portion being taken and the remaining acreage.
2. The accuracy of all surveys would be 1/10,000 using the Virginia State Coordinate System (North Zone).
3. Stakes would be placed intervisibly along the Airport Boundary and at the intersection of the Boundary with each property line involved.

To begin the job, we were supplied a mosaic showing the proposed Airport and the surrounding area at a scale of 1 inch equals 2,000 feet as well as the original vertical photographs. We were also furnished an approximate list of properties involved in both Loudoun and Fairfax Counties, and, according to the contract, we were also furnished the title examiners preliminary report on each property involved which would go back a minimum of 60 years. We were given the description of horizontal and vertical data on monuments set by the Coast Survey at angle points on the Airport Boundary as well as all information on surrounding bench marks and triangulation stations. We were also furnished several copies of the Court Order in Civil Action 1638-M giving us the right of entry for surveys and investigations.

We began the field work immediately on notification to

proceed by placing six field crews to run between the monuments as set by the Coast and Geodetic Survey. Each party started from a monument and plunged ahead on the bearing of the Airport Boundary, which, at that time, was Grid North or South, or Grid East or West. Upon moving up, each station so created was treated as a traverse station which would have an adjusted coordinate after closing on the set monument ahead. The longest distance traversed between the set monuments was between four and five miles.

Since the deed work was not available at this time, and the existing tax maps were rather inaccurate, each party chief was given the aerial photographs of his section of Boundary with the Boundary line plotted thereon. This enabled most property ties to be made as the traverse progressed. The availability of these photographs proved to be one of the largest single factors in finishing this job on time and in a profitable manner.

While the Boundary itself was being run, the entire project was laid out in the office on work sheets, and, with constant reference to the mosaic and the aerial photographs, a traverse system which would be the most efficient from a property tying standpoint was laid out. It was also necessary to consider best chaining routes and a tie-in and cut system that would produce the best closures.

As the deeds came in from the Title Attorneys, they were platted and compared with their apparent shape and location on the aerial photographs. This system revealed, prior to actual field reconnaissance, many discrepancies in deeds and properties that were not accounted for on the tax records. This saved us uncounted hours of field and office effort.

The traverses were run using T-1's and twenty second transits, 100 and occasionally 200 foot steel tapes which had been compared with a master tape calibrated at the Bureau of Standards. The taping was done using a transit for line and leveled by the use of hand levels. Also pull was recorded by the use of tension handles and the temperature recorded at beginning and end of each tangent. Computations, of course, utilized this information as well as sea level data for this area.

Whenever possible, each party chief was given a print of the area he was traversing, which showed all existing deed information, and, as always, he carried the applicable photograph. A great percent of the deeds recorded for this area proved to be less than useful and it was necessary to contact owners for locations of corners and other evidence of property lines. The photographs proved invaluable as an entry into such a discussion on this subject with owners who were otherwise hostile to the whole project. Showing the owners their whole property at once on a photograph provided a basis for conversation which resulted in securing information, and sometimes unrecorded maps, which otherwise would have been extremely difficult to obtain.

Due to general lack of information as to boundaries, it was necessary to tie and coordinate almost everything that might be related to the property involved. These ties included all road centerlines, the meanders of most streams and fences, hedgerow and other evidence of occupation,

(Continued on page 8)

CHAPTER NOTES

CENTRAL CHAPTER And a good time was had by all (that is all that attended the last chapter meeting at Seargent's River Home on the Mattaponi River). Attendance amounted to about two dozen. It was a covered dish picnic and boy! I mean we tied the feed bag on.

A bunch got ambitious and went to the Mattaponi Indian Museum, very worthwhile and interesting. Our State President, "Shay" Gregg and his wife were present and gave us a sneak preview of what the next annual convention (to be held in Williamsburg in January) would be like. The theme for the convention will be "Surveyor Education." He also told us that the total membership is increasing right along, that we soon should reach the 300 mark. I feel sure that if we all would make a special effort to attend this meeting next January, that a good many of us would be greatly surprised at the successful achievements of your State Association. A good many informative and worthwhile things are being accomplished.

We had a little business meeting at Saturday's picnic and if you weren't there we probably talked about you. We also discussed the future aims of the Richmond Chapter, including our next meeting which is scheduled for sometime in October (more about that later).

The Richmond Chapter is on the move.

John H. Foster

MONTICELLO CHAPTER At a meeting held on September 9, 1965, in Staunton, Va. the Fees and Practice Committee was in charge of the program. Committee chairman, Kenneth Hart, reported on a recent survey of the Monticello Chapter members regarding prevalent fees in our area. This survey will be a useful as a reference for members in evaluating their charges.

The membership chairman reported that all except possibly 2 surveyors in our area were members of the Monticello Chapter.

A nominating committee was appointed to present a slate of officers for the chapter to be elected on November 4, 1965.

Future Plans: Plans for the coming year include emphasis on Information and Education Activities and Public Relations. It is anticipated that during the year we will have a speaker from our chapter to address a meeting of the local Real Estate Organization and the Local Bar Asso-

ciation. The chapter hopes to offer some form of educational program for survey employees. Details on this endeavor have not been worked out.

The chapter has adopted a policy of encouraging members to bring guests to chapter meetings, particularly employees.

The chapter membership committee suggests that membership certificates and cards to be sent to the chapter for presentation to new members at an appropriate chapter meeting. Also copies of the surveyors manual, when completed, may be presented to new members at a meeting.

The chapter is grateful to all VAS members who assisted us in organizing the chapter. Particular thanks to "Shay" Gregg who really pushed us.

We offer our support and assistance to the administration for the coming year and hope that we may be able to contribute to the continuing success of the VAS.

W. S. Roudabush, Jr.

WESTERN CHAPTER At 1:00 P.M. on Saturday, July 31st, fifty-three persons gathered at the picnic area at Claytor Lake State Park for the first Annual Family Picnic of the Western Chapter of VAS. Despite threatening weather, an excellent representation of the membership was present. Members from Fishersville, Stuarts Draft, Bedford, Rocky Mount, Roanoke, Salem, Hillsville, Lambsburg and Christiansburg were present with their families and invited guests.

At 1:15 P.M. Mr. Woodrow W. Bedsaul gave thanks, after which everyone enjoyed delicacies from the picnic table. Unscheduled entertainment was provided by live musicians performing for another picnic group in the adjoining shelter. The young people participated in dancing, while the more conservative members observed the proceedings.

After feasting until approximately 2:30 P.M., those so inclined adjourned to the swimming area to enjoy the sunshine which finally made a sustained appearance for the remainder of the day. Picnic arrangements were made by E. Staley Clements, Jr. of Christiansburg.

The Western Chapter will hold its Annual Meeting on October 23rd at the Embassy Motel on U.S. Highway 460, between Roanoke and Salem. The business meeting will begin at 2:00 P.M. After a social hour, dinner will be served at 6:30 P.M.

David Dick

The Old Dominion Surveyor

MOUNT VERNON CHAPTER Following our precedence for large turn-outs the Mount Vernon Chapter at its September 9th Business-Dinner Meeting had 31 members present plus 7 guests and 5 affiliate members.

At the meeting held at Tom Sarris' Orleans House, the following new members were introduced to the Chapter—B. Calvin Burns, Fred S. Cardwell, Robert M. Dobbs, J. Horace Jarrett, William Matthews and Dwight Whiting.

Main item on the agenda was the soon-to-begin second year of the Surveyors School. George Cook discussed the function and outlined the courses of the school and in addition introduced all seven of the instructors. A short question and answer period followed and many ideas and suggestions were discussed.

President Wood announced that the newly adopted City of Fairfax Site Plan ordinance includes Land Surveyors as one of those permitted to prepare the "Site Plans."

An announcement was also made that the Mount Vernon Chapter now has 57 members in good standing.

Mr. Tom Cayce of Technical Advisors Inc. of Wayne, Michigan, demonstrated the new Weyle desk calculator.

On October 9, 1965 the Annual Fall Dinner-Dance was held at the Park Arlington Motel with approximately 40 members in attendance. Former member John Marshall entertained the group with some outstanding feats of legerdemain.

John M. Coldwell

SHENANDOAH CHAPTER The Shenandoah Chapter held a called meeting in July to discuss the use of signature and seal by unauthorized persons, and it was agreed that the membership keep a look out for plats appearing for record as filed by unauthorized persons.

Mr. R. W. Neergaard was elected Public Relations Secretary.

A discussion of the By-laws of the Chapter lead to the recommendation that they be reviewed by the Directors and recommendations be made to the Chapter.

On August 14th the annual Chapter picnic was held at Dick Goode's cottage an event which was thoroughly enjoyed by all members.

The Chapter met again on September 24th in Front Royal, Virginia, with 6 members, 2 guests and 1 affiliate member in attendance. Several pieces of correspondence were read concerning the practices of unlicensed surveyors and surveyors signing for unlicensed persons.

Review of the By-laws was continued. There was considerable discussion for the surveyors establishing a minimum fee for title surveys and construction surveys on a percentage basis. The report of the Fees Committee was discussed and received many favorable comments.

To date the Shenandoah Chapter has reported 3 persons to Director Turner Burton's office for practicing land surveying without a license.

James C. Wilkins

SOUTHERN CHAPTER The summer meeting of the Southern Chapter, Virginia Association of Surveyors, was held on August 14, 1965, at the Paul Saunders residence, Piney River, Virginia.

For the early arrivals, Paul Saunders, president of the Southern Chapter, conducted a tour of Crabtree Falls, Saunders' Nursery and Saunders' Peach Orchards. Members were given shrubbery and baskets of peaches, compliments of the host.

After the tour, members, wives and guests enjoyed a delicious steak supper which was prepared by Mr. and Mrs. Saunders and served on the lawn.

Attending the meeting were Mr. and Mrs. Alfred H. Carter, J. A. Gustin, Joseph E. Hardee, J. Walter Jones, Jr., A. E. Little, Maurice G. Overstreet, Mr. and Mrs. Erskine W. Proffitt, Mr. and Mrs. Fred O. Shanks, Jr., T. W. Saunders, Mr. and Mrs. Paul M. Saunders, Mr. and Mrs. S. E. Saunders, Edmond L. Wilmarth, Mr. and Mrs. W. D. Yeaman, and two guests, J. A. Keller and J. W. Goodwin.

Preliminary plans are for our fall meeting to be held in October at Lynchburg.

W. D. "Joe" Yeaman

TIDEWATER CHAPTER On June 24, 1965, the Tidewater Chapter met at the Ranch House Restaurant in Norfolk. Fifteen members were present plus three guests. After a short business meeting during which the Chapter donated \$25.00 to the Randolph Carter Memorial Scholarship Fund and discussed the possibility of asking for the standard tape, our three guests presented their program.

Mr. Charles Kiley, Chief Engineer for the City of Virginia Beach, reviewed their new policies and procedures for application and approvals of subdivisions. In this, the fastest growing area within our State, Mr. Kiley explained that they had to shorten the approval time in order to keep pace with the demand. New forms and simplified administrative formats appear to aid their new program. The Beach's new highway improvement program is also beginning to go into full swing.

Mr. Ronald Holland, Drainage Engineer for the City of Virginia Beach, discussed storm drainage problems and procedures for the City. The use of 5-year storm design with an intensity of 2.1 inches per hour is being used for culvert design. Inlets are being designed using 2-year storm intensities.

Mr. Mason Gamage, Planning Director for the City of Virginia Beach, served as anchor man for our guests. Mr. Gamage summarized the various departmental approvals for subdivisions. Depending on the size of subdivision, approvals must be obtained by the Health Department, Planning Director, City Engineer, Superintendent of Streets and Highways, Director of Public Works, Division of Inspection, Public Utilities, Bureau of Safety, and Commissioner of Revenue. Mr. Gamage also discussed the greater Tidewater area committee coordination for standardization of planning, zoning, construction, etc. for subdivisions and developments as well as the City's Master Drainage Plan.

On September 30, 1965, twenty-one members and three guests met at Rodman's Restaurant in Portsmouth, Virginia.

Jack M. Hill, P.E.



SECRETARY-TREASURER'S REPORT

Receipts and Expenditures Since February 1, 1965:

RECEIPTS:

From Previous Sec'y Treas.	\$1,915.60	
Annual Meeting	1,949.00	
1963 & 1964 Dues	245.00	
1965 Dues	1,790.00	
Initiation Fees	190.00	
Information Pamphlet	20.00	
Lapel Pin	2.50	
Picture of Board, May 1, 1965	30.00	
		\$6,142.10

EXPENDITURES:

Annual Meeting	\$2,358.04	
Corporate Reg. Fee	5.00	
Print & Mail "Old Dominion Surveyor"	711.11	
Stamps	36.00	
Office Supplies	38.70	
Printing, Stationery & Telephone Calls	341.72	
Addressplates	9.64	
Mailing Flyers ACSM-PSD	10.67	
Proficiency Certificates	265.00	
Directors Meeting May 1, 1965	76.55	
Pictures of Board May 1, 1965	42.50	
Overpayment of Dues returned	30.00	
Memorials—deceased members	50.00	
1965-1966 Directory	92.69	
Minutes Annual Meeting, Print & Mail	316.25	
Minutes May 1, Directors Meeting	57.11	
		\$4,440.98
Balance in Bank, Sept. 30, 1965		\$1,701.12
		\$6,142.10

Respectfully submitted,
MILLARD G. SMITH
Secretary-Treasurer

DULLES AIRPORT REPORT . . .

(Continued from page 5)

and in several instances, stakes which were placed in the field after adjoining property owners agreed to the location. In one instance, this staked line was located halfway between two rows of garden vegetables. Great assistance was again obtained from the aerial photographs in locating former field lines which were possible property lines. These lines would show clearly on photographs but were almost impossible to find on the ground due to dense undergrowth.

In all, some 35 miles of traverse and boundaries were run inside and outside the Airport proper to tie in approximately 14,000 acres of property from which some 10,000 acres were taken for the body of the Airport itself. In addition to this, over 19 miles of the Airport Boundary was staked intervisibly.

In summation, then, we find our 13,000 acres surveyed, a 10,000 acre Airport Boundary staked, a Roadway acquired, and flood easements secured. This was all done with modern methods using modern equipment, making full use of available photographic and photogrammetric information, and utilizing the services of qualified Title Attorneys to secure proper deeds prior to making the surveys. The relative time schedule was met, and the surveys accomplished to the satisfaction of owners and the Government. Indeed, these very facts point to a routine urban survey such as you in private practice might make on any given day. So where is the monument? The size and magnitude of the job, of course, set this project somewhat apart, but, in my mind, the real monument lies in the fact that each property owner involved in this large scale condemnation received the benefit of a personal professional survey of his property as though he had ordered the plat himself.

Without a doubt, this is the first, or one of the first, condemnations of this size to provide such service to the owners involved, and I would hope that this monument will be used as such in the future.

Editor's Note: The above is a condensed version of Mr. Courson's address, presented at the Annual Meeting of PSD of ACSM, April 1, 1965. The full text will appear in a future issue of the ACSM Journal.

The Old Dominion Surveyor
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