

The Nova Scotian Surveyor

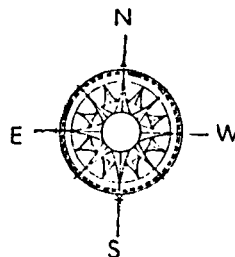
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PRESIDENT'S REPORT

The Fiftieth Annual Meeting of the Canadian Institute of Surveying and Photogrammetry was held in Ottawa, February 6th, 7th and 8th, 1957. It was also the Seventy-Fifth Anniversary of the Institute, twenty-five years having elapsed before an annual meeting was held.

From the moment one entered the circle of this great gathering the anniversary spirit was sensed, which continued throughout the three days of meetings. Great tribute, therefore, can be paid to the untiring efforts of the Convention Committees: in addition to some twelve papers which were given by distinguished members and guests, entertainment was also provided. Wednesday evening there was a cocktail party where East met West and new acquaintances made. The Annual Luncheon was held on Thursday, the guest speaker being the Honourable Robert H. Winters. The president from the various provinces had the honour of being seated at the head table, after which there was a conducted tour through the E. D. Eddy Company, at Hull, and an Institute dance was held in the evening with the Royal Ottawa Golf Club. There was also a fine program arranged for the visiting ladies under the direction of Mrs. George Prudham.

Members from each Province of Canada, except Prince Edward Island, attended this Convention. In addition to 600 members registered, there were guests present from various parts of Canada and the United States, with visiting ladies making a total count of more than 1,000 persons, all amid the decorative setting of the grand old Chateau Laurier.

There were exhibits from the many instrument firms. The Government of Canada had a very fine booth displaying ancient instruments and maps, which created a great deal of interest. There were also fifteen firms who had exhibit booths. Probably one of the finest displays of ancient and modern instruments ever shown at one time in Canada, the

value of which, I was told amounted to a quarter of a million dollars. It was like a grand midway, or exhibition, where one could look about and see something of interest at every turn. It was indeed a Surveyor's Paradise: booth after booth so richly decorated containing everything from a ten-foot measuring tape to the finest aerial cameras, a Wild projector, and a 7A Aerial Plotting Machine, which I believe, sold for approximately \$30,000.00. This 7A Aerial Plotting Machine is so intricate in calibration that only one man in Canada can do the setting up. As he was not available, Paul Dietrich, a fine young man from the Switzerland factory was there especially to demonstrate this particular machine.

The meetings were well attended. Members wandered about at will and either attended the meetings or the various exhibition booths. However, every chair seemed to be filled at each paper given. These papers were given by distinguished members of the Institute and distinguished guests. Among the latter were Mr. Gerald Fitzgerald, Chief Topographic Engineer for the United States Geodetic Survey; Mr. Gordon E. Ainsworth, President of the Massachusetts Association of Surveyors and Civil Engineers. This paper was particularly interesting because Mr. Ainsworth spoke of the legal aspects of surveying in Massachusetts, and it was interesting to note that they have more complex problems than we do in Nova Scotia, especially in land titles. Some of the papers were highly technical and fully understood by only those who specialize in that particular field. One could not listen, however, to such fine lectures, even though perhaps not fully understood, without gathering a broader outlook and a stimulating inspiration. I would like to find words to pass on to each and every member of our Association a measure of that inspiration which I gathered there and instill in the minds of every member the vital importance of our Association, young though it may

be. Only by such an Association can we lay plans for the future development of our Surveyors so that they can cope with the trend of the times and take their place with the fast moving, highly specialized profession of surveying. It is our duty to build for the future so that the next generation will be equipped to meet the most exacting demands. One way, in particular, we could do this is by giving our full support in building a new and modern surveying school at Lawrencetown. All of Canada is conscious of, and has an eye on, the one we now have. Let us make it so Canada will have both eyes on the one we will have. As I said before, our Association is young in comparison with the other provinces, Manitoba has had its 77th Annual Meeting; Quebec its 74th; Ontario its 65th; Alberta its 48th, and so on. Yet although we are young in years, we have a very solid foundation and we have a distinction in our own right by having this modern surveying school.

There is another honour of which we can well be proud; one of our own members and past pre-

sident, J. R. March, is now President of the Canadian Institute of Surveying and Photogrammetry. It was a pleasure to be there and witness the installation, and, judging from the ovation he received, there is no doubt of his popularity and his recognized ability by the members of the Institute. Another of our members, Major J. A. H. Church, is one of the Provincial Counsellors of the Institute representing Nova Scotia, and still another Nova Scotian, Mr. I. M. Sutherland, made a name for himself by receiving the Bausch and Lomb award for a paper on photogrammetry.

Fellow members, let us be proud of our Association. Make a special effort to all attend the Annual Meetings. Your executive endeavours to do your bidding, but it is you, each individual member, who has the final say in the adoption of whatever we do. Let us all, then, strive to make our Association a little stronger each year than it was before, for it is our investment in the future.

Signed: FREEMAN TUPPER, P.L.S.
President

LIST OF MEMBERS

OF THE ASSOCIATION OF PROVINCIAL LAND SURVEYORS OF NOVA SCOTIA

HONORARY MEMBERS

- | | |
|--|---|
| <p>100 Harrison, F. A., 13 Studley Ave., Halifax, N. S.</p> <p>31 March, S. Edgar, 24 Alexanderia Ave., Bridgewater, N. S.</p> <p>43 Milgate, Raymond J., 169 Henry St., Halifax, N. S.</p> <p>22 MacPherson, Dr. Hugh, St. Francis Xavier University, Antigonish, N. S.</p> | <p>21 Ball, Spencer, 16 Pine Hill Drive, Halifax, N. S.</p> <p>62 Ball, Walter L., 140 Hamilton Ave., St. John's Nfld.</p> <p>178 Banks, A. T., P. O. Box 47, Kingston, N. S.</p> <p>53 Barrington, Yorke C., P. O. Box 629, Sydney Mines, N. S.</p> <p>108 Bates, George T., 420 Capitol Bldg., Halifax, N. S.</p> |
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MEMBERS

- | | |
|--|--|
| <p>61 Adams, Eldon, Bank of Nova Scotia Bldg., Sydney, N. S.</p> <p>68 Ahern, Philip C., P. O. Box 981, Halifax, N. S.</p> <p>74 Alexander, Brian R., Hantsport, N. S.</p> <p>86 Amero, Roy C., 1318 Trenton Ave., Ottawa, Ontario</p> <p>80 Amirault, Alvinie E., Upper West Pubnico, Yarmouth Co., N. S.</p> <p>48 Anderson, Henry M.</p> <p>60 Archibald, Charles L., Maritime Block, Amherst, N. S.</p> <p>42 Archibald, Joseph F., 2 Faulkner St., Dartmouth, N. S.</p> <p>83 Arsenault, William A.</p> <p>200 Arscott, David D., 188 Princess St., Saint John, N. B.</p> <p>47 Baker, James R.</p> | <p>119 Betts, Wallace H., 23 Vernon St., Halifax, N. S.</p> <p>175 Bill, G. Emerson, 105 George St., Ottawa, Ontario.</p> <p>146 Bird, Donald J., Room 437, Roy Bldg., Halifax, N. S.</p> <p>170 Blackett, V. C., 97 McBeath Ave., Moncton, N. B.</p> <p>79 Bloomer, Basil L.</p> <p>66 Boehk, Ernest F., 309 Fuller Terrace, Halifax, N. S.</p> <p>114 Boutilier, Lionel E., 200 Ness Ave., St. James, Winnipeg 12, Man.</p> <p>101 Boutilier, Peter G., P. O. Box 370, Yarmouth, N. S.</p> <p>166 Boylan, Curtis M., New Ross, Lunenburg Co., N. S.</p> <p>81 Boylan, Gerald B., P. O. Box 968, Fredericton, N. B.</p> |
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- 76 Brown, John V., Topo Survey, No. 8 Temp. Bldg., Ottawa, Ontario.
- 26 Burgess, R. H., 32 Queen St., Truro, N. S.
- 85 Bushell, Norris L., Hazel Hill, Guysborough Co., N. S.
- 92 Byers, J. W., 39 Regent Street, Amherst, N. S.
- 196 Cameron, C. Irwin, Milton, Queens Co., N. S.
- 18 Cameron, Hloyes A., Bridgeville, Pictou Co., N. S.
- 70 Cameron, John B.
- 192 Campbell, Charles A., Fatima Drive, Sydney River, C. B. Co., N. S.
- 135 Carey, Roger P.
- 174 Carlin, Cyril B., Hillsboro, Albert Co., N. B.
- 128 Chambers, William E., 322 Terrace St., New Glasgow, N. S.
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- 46 Chisholm, A. F., 19 Ralph Devlin Drive, Halifax, N. S.
- 89 Chisholm, Ronald J., R. R. No. 1, South River Sta., Ant. Co., N. S.
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- 20 Church, James A. H., P. O. Box 58, Lawrence-town, Anna. Co., N. S.
- 168 Collings, Allan F., 2427 Lockhart Ave., Mon-treal 16, P. Q.
- 203 Comeau, Ernest J., Meteghan, Digby Co., N. S.
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- 182 Crandall, Allan C., 187 Medley St., Fredericton, N. B.
- 183 Crandall, David W., 469 Broadway Ave., Win-nipeg.
- 57 Crawley, Edmund A., R. R. No. 1, Chester, Lunenburg Co., N. S.
- 107 Creighton, C. S., 40 Walton Drive, Armdale, Halifax Co., N. S.
- 40 Creighton, G. W. I., 60 Norwood St., Halifax, N. S.
- 126 Crichton, Gordon L., 145 Glen Ave., Ottawa, Ontario
- 213 Crooker, David L., South Brookfield, Queens Co., N. S.
- 37 Crooker, William S., Port Wallis, Halifax Co., N. S.
- 32 Crowell, Seymour C., P. O. Box 279, Yarmouth, N. S.
- 163 Currie, H. D. G., Room 608, 151 Front St., West, Toronto, Ontario.
- 122 Dechman, Arthur M., Bridgewater, N. S.
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- 185 Drysdale, Evans G., Castries, St. Lucia, B. W. I.
- 99 Dumaresq, J. Philip, 77 Upper Water St., Halifax, N. S.
- 191 Dyer, F. Bern, Fall River, Halifax Co., N. S.
- 65 Eldridge, Donald L., 21 Thomas St., Truro, N. S.
- 212 Ferguson, Murdock A., St. Peters, Richmond Co., N. S.
- 143 Fiske, John R., 36 Springdale Ave., Armdale, N. S.
- 91 Fogarty, Rev. William P., St. Francis Xavier University, Antigonish, N. S.
- 59 Forbes, F. W., Windsor Apts., New Glasgow, N. S.
- 150 Foster, Edward S., Liverpool, N. S.
- 125 Foster, William H., 105 Vachon St., Ottawa, Ont.
- 67 Fraser, John A., 19 Catherine St., Glace Bay, N. S.
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- 7 Hebb, Errol B., 15 Walnut St., Bridgewater, N. S.

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- 193 Hunt, Robert L., P. O. Box 784, Liverpool, N. S.
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- 188 Jefferson, Glen E., New Germany, Lunenburg
- 82 Johnston, Victor W. E., 4 Vaughan Ave., Halifax, N. S.
- 17 Keen, Chester A., R. R. No. 2 Marshallton, Digby Co., N. S.
- 102 Kelly, James F., 8 Cartaret St., Halifax, N. S.
- 148 Kendall, Ralph, 122 Charlotte St., Sydney, N. S.
- 103 Killam, George, C/O Killam Bros., Yarmouth, N. S.
- 139 Lahey, J. Walter, 67 Crichton Ave., Dartmouth, N. S.
- 23 Lambden, David W.
- 176 LaPointe, Pierre, 24 Charlotte St., Longueuil, P. Q.
- 98 Lemmon, C. C., 91 Claremont St., Halifax, N. S.
- 54 Lindsay, C. C., 159 Craig St., West, Montreal, P. Q.
- 12 Logan, Robert A., Lake Charlotte, Halifax Co., N. S.
- 75 Lynch, T. W. J., 18 Dustan St., Dartmouth, N. S.
- 93 Manuel, Oliver H., P. O. Box 122, Lunenburg, N. S.
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- 159 Melanson, Russell, 45 Laikin Ave., Fisher Heights, Ottawa, Ontario
- 197 Meldrum, Hazen B.
- 6 Millard, R. E., P. O. Box 337, Liverpool, N. S.
- 151 Milner, B. W., R. R. No. 1, Lawrencetown, Anna., Co., N. S.
- 181 Monplaisir, Ornan P., Vigi, St. Lucia, B. W. I.
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- 30 Morrison, Roderick P., R. R. No. 2, Baddeck, N. S.
- 90 Morrison, William P., 43 1/2 Dundas St., Dartmouth, N. S.
- 134 Mosher, Medford C., 13 Peter Lowe Ave., Halifax, N. S.
- 28 Mosley, Harold G., 37 York St., Glace Bay, N. S.
- 116 Murray, A. Howard, Earltown, Colchester Co., N. S.
- 190 Murray, Robert R., C/O Hollingsworth and Whitney Ltd., Bridgewater, N. S.
- 11 MacAloney, Charles W., 59 Main Ave., Fairview, Halifax Co., N. S.
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- 187 MacDougald, Gerald F., 15 Minto Street, Amherst, N. S.
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- 58 MacKay, Alec C., R. R. No. 1, Egerton, Pictou Co., N. S.
- 123 MacKay, Howard W.
- 94 McKay, James K., P. O. Box 218, Shelburne, N. S.
- 1 McKenzie, James D., Enfield, Hants Co., N. S.
- 51 MacKenzie, John E., 35 Catherine St., Glace Bay, N. S.
- 173 MacLean, Douglas C., 1969 Avenue Road, Ontario
- 14 MacLeod, Angus, Wreck Cove, Victoria Co., N. S.
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- 157 MacMillan, Angus, P. O. Box 576, Antigonish, N. S.
- 155 McMullin, Matthew, Dept. of Highways, Mahone Bay, N. S.
- 13 MacPhail, Colin, R. R. No. 1, South Bar, C. B. Co., N. S.
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- 149 Phinney, Gerald F., P. O. Box 799, Bridgewater, N. S.
- 9 Piers, E. O. Temple, 92 Birmingham St., Halifax, N. S.
- 140 Pope, John S., P. O. Box 195, Louisburg, N. S.
- 50 Price, Jacques, P. O. Box 340, Windsor, N. S.
- 201 Rafuse, MacAllister D., 54 Russell Street, Halifax, N. S.
- 167 Reid, J. E., 3 Westminster Ave., Amherst, N. S.
- 25 Richard, Cornelius D., Londonderry, Colchester Co., N. S.
- 171 Riggs, Albert O., P. O. Box 272, Louisburg, N. S.
- 115 Ritchie, Edward B., Liverpool, N. S.
- 153 Robart, Charles H., 55 McSweeney Ave., Moncton, N. B.
- 39 Robertson, Elliott M., 13 Hillside Ave., Halifax, N. S.
- 124 Robertson, H. B., 92 Larch Street, Halifax, N. S.
- 104 Robichaud, Joseph I., 20 First Ave., Ottawa, Ontario
- 29 Rogers, Charles D., Oxford, N. S.
- 120 Russell, John, Digby, N. S.
- 205 Rutledge, A. Blake, 11 Cleveland Crescent, Dartmouth, N. S.
- 49 Ryan, James L., 47 Russell Street, Halifax, N. S.
- 147 Saltman, Fred E., Mahone Bay, N. S.
- 117 Sampson, C. D., No. 7 Works Coy., R.C.E., Fredericton, N. B.
- 144 Schofield, Laurie A., 162 Oakdene Ave., Kentville, N. S.
- 10 Schofield, Roy M., 11 Pleasant Street, Dartmouth, N. S.
- 41 Servant, Walter E., 21 George Dauphinee Ave., Halifax, N. S.
- 189 Sherren, James C., Moncton, N. B.
- 215 Singer, Grant, Maitland, Hants Co., N. S.
- 216 Smith, Eric D., 69 West St., Moncton, N. B.
- 110 Smith, Lewis O., South Brookfield, Queens Co., N. S.
- 27 Smith, Thurlow M., Port Hood, Inverness Co., N. S.
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- 177 Snow, Sterling G., Ecum Secum, Guysborough Co., N. S.
- 56 Spence, Graydon D., St. Croix, Hants Co., N. S.
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- 158 Theriault, Richard J., Annapolis Royal, N. S.
- 165 Thompson, Kenneth G., 7 Roosevelt Ave., Truro, N. S.
- 5 Tupper, Freeman, Dept. of Highways, Halifax, N. S.
- 113 Verner, Earl J., 45 Pleasant St., Sydney, N. S.
- 133 Wade, Robert F., 21 Sterling St., Gouverneur, New York, U. S. A.
- 36 Wagstaff, Donald E., Brooklyn, Queens Co., N. S. (P. O. Box 55)
- 130 Watson, W. B. Jr., 301 MacKenzie Ave., Inverness, N. S.
- 112 Wedlock, Howard K., 109 Johnstone Ave., Dartmouth, N. S.
- 199 Wendt, Paul, R. R. No. 1, Ellerhouse, Hants Co., N. S.
- 35 Wightman, F. C., 19 Rupert St., Amherst, N. S.
- 55 Withjelm, F. E., 32 Peter St., Moncton, N. B.
- 19 Williams, Robert B., Bass River, Colchester Co., N. S.
- 195 Yates, Frank D., Baddeck, N. S.

REPORT OF THE FOURTH ANNUAL MEETING OF THE Association of New Brunswick Land Surveyors

In January I had the honor of representing the Association of Provincial Land Surveyors at the 4th. Annual Meeting of the Association of New Brunswick Land Surveyors, held in the Lord Beaverbrook Hotel in Fredericton, on the 22nd. and 23rd. of January, 1957.

I did not arrive in Fredericton in time for the morning program on January 22nd. This was due to poor flying conditions that morning, and the Trans Canada Airlines flight scheduled to leave Halifax at 7.05 A. M. was held up until 10.30 A. M., so I did not arrive in Fredericton until noon. I also missed the Luncheon and the President's welcoming address, the presentation of certificates and the oath to new members.

Shortly after arriving at the Lord Beaverbrook Hotel I met President H. P. Lingley, Mr. Willis Roberts, and Mr. J. R. Bedard the Secretary-Treasurer. Thanks to the efforts of Mr. Roberts I was able to get a room at the Hotel.

At 1.30 P. M. the meeting was called to order by President Lingley who then proceeded to give his report to the members, and was followed by the Report of the Secretary-Treasurer, and the report of the Examining Committee.

Next was the Exhibitors' Hour and a representative from the W. and L. E. Gurley Factory in Troy, N. Y. gave a very educational lecture on the care and use of the Surveyor's Transit. During the lecture he completely dismantled a transit and at the same time gave advice on the proper method of cleaning and caring for each part.

Immediately following the Exhibitors' Hour Mr. Cedric Clements, Director of Mines for the Province of New Brunswick read an interesting paper on "Surveying as applied to Mining in New Brunswick".

The final paper for the day was read by Mr. M. P. Wetmore of the Photogrammetry Section of the N. B. Department of Lands and Mines. Mr. Wetmore gave a very interesting and instructive paper on "Photogrammetry, and the use of Aerial Photographs by the Land Surveyor". Following Mr. Wetmore's paper the members and guests were taken on a tour of the Photo Section of the Department of Lands and Mines.

At 6.30 P. M. we sat down for the 4th. Annual Banquet of the Association of New Brunswick Land Surveyors. The Speaker for the evening was the late Hon. Babbitt Parlee, Minister of Municipal Affairs, who gave a very interesting address on the functions of the provincial Planning Board of the Province of New Brunswick. As most of you know Mr. Parlee left for Moncton by plane immediately following the banquet and has not been heard of since leaving the air port at Fredericton.

The meeting was again called to order at 9.30 A. M. Wednesday morning, and all present were shocked when President Lingley informed them

that the speaker of the previous evening was missing on his flight from Fredericton to Moncton.

The first item on the program Wednesday morning was a film shown by Mr. Leslie Garnet of Ottawa, who was representing Wild of Canada at the meeting. The film was one produced by Wild and showed the various steps in the construction of their Surveying and Photogrammetric Instruments.

This was followed by a discussion on the subject of reciprocity. Most of the members were in favor of reciprocity with Nova Scotia. It was decided that very little more can be done until the New Nova Scotia Land Surveyor's Act is passed and a system of apprenticeship is set up to comply with the system now in effect in New Brunswick.

Mr. C. M. Roy read a very interesting paper on "Land Surveying in New Brunswick".

This was followed by another very interesting paper on "Town Planning", by Mr. H. E. Tait, Director of Planning for the Province of New Brunswick.

Mr. Willis Roberts, Director of Surveys for the N. B. Department of Lands and Mines read a very interesting and informative paper on "Cartography". During which he outlined the program of Mapping being carried out by their Department and by the private Lumber and Mining Companies in the Province.

At 11.00 A. M. Mr. J. R. Bedard, Secretary-Treasurer of the Association presented the Annual Budget.

The presentation of the Budget was followed by a film on the Beechwood Hydro Development with commentary on each step of the project by Mr. Howard Rogers Sr., Engineer-in-charge of the development. Following the showing of the film a brief discussion period was held with Mr. Rogers answering questions by the members.

At 12.00 Noon the meeting adjourned until 2.15 P. M., and at 12.30 P. M. we sat down for Luncheon, with Mr. E. O. Turner, Dean of Civil Engineering, University of New Brunswick as the Guest Speaker.

At 2.15 P. M. the meeting was again called to order by President Lingley.

Mr. Gilbert then read a most interesting paper on Registration and the Torrens System.

President Lingley then called on Mr. Llewellyn T. Schofield, Secretary of Massachusetts Association of Land Surveyors and Civil Engineers, and a former member of the Massachusetts Land Court to give an outline of the system of Land Registration used in Massachusetts which is also a form of the Torrens System.

The remainder of the Afternoon was taken up with discussions on Proposed By-Laws, Old Business, members suggestions and the election of Officers.

The list of Officers for 1957 is:

President C. F. Cook

Vice-President: G. D. Hughes

Secretary-Treasurer: J. R. Bedard

Councillors: H. P. Lingley, C. B. McKiel, R. S.

Jones, H. C. Rogers Sr., W. I. Spence, E. R. Jamieson, R. C. Brown, C. M. Roy, Archie McLaughlin, H. E. Tait.

The Exhibitors put on a very attractive display of Surveying Instruments in the Exhibition Room on the mezzanine floor. Those represented were Hughes-Owens, Eastward Industries, and Wild of Canada. It was nice to meet again Mr. Leslie Garnet, of Wild of Canada, Ottawa, and Mr. Ed. Pelletier, of Keuffel and Esser of Canada Limited, Montreal, both of whom have taken part as exhibitors at our own meeting in Halifax.

The meeting was most successful and I was pleased to have had the privilege of being there.

Signed: H. B. Robertson,
Secretary-Treasurer

Copy of Letter Received From Mrs. Layton Reid

Addressed to Mr. R. M. Schofield, 11 Pleasant
Street, Dartmouth.

20 Steven's Rd.,
Woodlawn.
January 25th

Dear Mr. Schofield,

Will you please extend to the members of the Association of Provincial Land Surveyors my heartfelt thanks for their kind thoughts expressed, in the beautiful spray of flowers sent at the time of my husband's death.

Very Sincerely,

(Signed) Marjorie Reid

"....And Remember the Red River Valley"

By W. & L. E. Gurley, Union Plaza, Troy, N. Y., in Surveyor's Notebook

"Reading in 'The Surveyor's Notebook' collection* about Arthur Kidder and Joe Thoma's cadastral surveys reminds me of the time I worked with them on the Oklahoma-Texas boundary dispute", says Wesson Cook, Planning Engineer, The Maryland-National Capital Park and Planning Commission.

"It was 1926. Under decree from the U. S. Supreme Court, our General Land Office party was assigned the job of re-establishing the boundary line at points where the Red River had changed its course—causing considerable dispute over locations of valuable oil lands.

"Along one 100-mile stretch, the old boundary was often submerged under shallow 'oxbow lakes' formed by the change in the Red River channel. It was impossible to mark the boundary or set up tripods.

"Here's how we got stations: We drove posts into the muck, then took the head of an old tripod and attached it to an iron bracket which slid down over the posts, and was fastened with clamp screws. With a triangular platform of heavy boards, we were able to walk around the stations without disturbing the transit.

"One day when we were working under considerable pressure, I lost the crosshairs of my transit. The work had to go on and I was afraid I was sunk. The only thing to do was to catch a spider and have it spin two crosshairs.

"We hunted for one; and, after finding a nice specimen, kept the little devil warm under glass until it had spun enough to help me. The biggest part of the job was getting the web in place. After spending the good part of an afternoon at the tedious job, I had crosshairs again. The work went on.

"This of course, was before the days of glass reticles, and would never happen today with a Gurley Transit. I've used just about every make; and I'd say it's going to be pretty hard to beat a Gurley for accuracy and ease of adjustment."

*Kidder and Thomas's account of cadastral surveying with a solar transit, Thoma's remedy for "frozen" tripods and all other stories and surveying tips from the first year's "Surveyor's Notebook" series have been gathered into permanent book-yet form. Write for your free copy of "The Surveyor's Notebook." You'll find it very helpful.

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