

## THURSDAY EVENING SESSION

January 22, 1948

The meeting reconvened at eight thirty-five o'clock, President Sanders presiding.

PRESIDENT SANDERS: We will now officially open our meeting.

I wish to mention the name which has been given to this night. The business meeting, as we have always called it, gives the idea of something rather drab. We are now in the position of having two established awards and a third which has been created this year. I hope that as time goes on there will be more awards so that we can really have a meeting in which we make the presentations to the outstanding members of our Society who by their efforts are helping us to achieve our basic objectives.

I hope that the custom, which has been started tonight in calling this the Awards Night will be continued by succeeding presidents.

The first item of business is a report by our Secretary-Treasurer, Mr. Kerwin Linck.

MR. LINCK: Mr. President, Members of the Society and Friends. The Secretary's and Treasurer's Reports which are about to be presented cover a period of seven months, March through September, during which Mr. J. M. Haynie served as Secretary-Treasurer and the remaining five months during which I served. As most of you will recall, it was announced at our last Annual Meeting that Mr. Haynie would be our first full-time Secretary-Treasurer. On March 1, he assumed the responsibilities of that position but later in the year, due to ill health, the Board of Directors reluctantly accepted his resignation. Since the early part of October I have carried out the duties of the position and will continue until your new full-time Secretary-Treasurer takes office on February 1.

### TREASURER'S REPORT (AS OF DECEMBER 31, 1947)

#### INCOME

On deposit in checking account, Anacostia National Bank, December 31, 1946.....	\$ 5,662.42
Dues (Regular & Sustaining).....	10,156.05
Subscriptions to PHOTOGRAMMETRIC ENGINEERING.....	1,586.00
Sales—MANUAL OF PHOTOGRAMMETRY.....	4,404.84
Sales—Extra issues of PHOTOGRAMMETRIC ENGINEERING.....	1,164.58
Advertising—PHOTOGRAMMETRIC ENGINEERING.....	1,793.03
Sales—Emblems.....	231.10
1947 Annual Meeting.....	2,278.00
Interest.....	242.50
Miscellaneous.....	25.87
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TOTAL INCOME.....	27,544.39
Less checks issued previous to December 31, 1946 and cashed after that date.....	211.34
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TOTAL ACCOUNTABLE FUNDS.....	\$27,333.05

## EXPENDITURES

Postage.....	436.60
Telephone and Telegraph.....	54.96
Office Supplies.....	395.99
Duplicating and Printing.....	1,606.99
Printing and Mailing PHOTOGRAMMETRIC ENGINEERING.....	6,817.89
Salaries & Commissions (Editor, Secretary-Treasurer, Advertising Editor, Stenographer).....	4,113.02
Meetings, including advance on 1948 Annual Meeting.....	2,341.61
Office rent.....	46.00
Emblems.....	45.04
Express Charges—MANUAL OF PHOTOGRAMMETRY.....	108.11
International Society of Photogrammetry.....	333.71
Investment in U. S. Government Bonds.....	220.59
Miscellaneous.....	291.74
<b>TOTAL EXPENDITURES.....</b>	<b>16,812.25</b>
On deposit—Checking Account Anacostia National Bank, December 31, 1947.....	10,144.36
Checks received prior to but not deposited until after January 1, 1948.....	670.78
<b>TOTAL.....</b>	<b>\$27,627.39</b>
Less uncashed checks issued prior to December 31, 1947.....	294.34
<b>TOTAL ACCOUNTED FUNDS.....</b>	<b>\$27,333.05</b>

## GENERAL BALANCE

## ASSETS

On deposit Anacostia National Bank December 31, 1947.....	\$10,144.36
Investments—Government Bonds.....	10,000.00
Checks received prior to December 31 but not deposited until after January 1.....	670.78
Advance payment 1948 Annual Meeting.....	200.00
Inventory—Office Supplies and Equipment (Estimated).....	450.00
Inventory—Emblems (Sales Price).....	468.50
Inventory—Extra Issues of PHOTOGRAMMETRIC ENGINEERING (Est.).....	400.00
Inventory—Stock of MANUALS.....	50.00
Accounts Receivable (Estimated).....	700.00
<b>TOTAL ASSETS.....</b>	<b>\$23,083.64</b>

## LIABILITIES

Uncashed checks issued prior to December 31, 1947.....	\$ 294.34
Printing and Mailing Vol. XIII, No. 4, PHOTOGRAMMETRIC ENGINEERING (Estimated).....	2,000.00
<b>TOTAL LIABILITIES.....</b>	<b>\$ 2,294.34</b>
<b>NET VALUATION OF THE SOCIETY.....</b>	<b>\$20,789.30</b>

SPECIAL STATEMENT  
TALBERT ABRAMS' AWARD FUND

On deposit—Savings Account—Prince George's Bank & Trust  
Company—December 31, 1947..... \$ 920.35

NOTE: This fund is not included in the General Balance or in the net valuation of the Society.

There are several points regarding these figures which are of interest. First, our income during 1947 exceeded that of 1946 by approximately \$8,300. This is indicative of a healthy growth; however, we should keep in mind that \$4,400 of this amount was represented by converting MANUALS OF PHOTOGRAMMETRY into cash income. Secondly, our cost of operation increased in 1947 over 1946 by approximately \$6,400. This increase in expenditures was represented mainly by the increased cost of PHOTOGRAMMETRIC ENGINEERING for this year in the amount of \$2,800 over 1946, the employment of a full-time Secretary-Treasurer, the increased cost of duplicating and printing other than for PHOTOGRAMMETRIC ENGINEERING, and the payment of over \$300 to the International Society of Photogrammetry. Thirdly, the net valuation of the Society increased by about \$1,700.

SECRETARY'S REPORT  
(AS OF JANUARY 1, 1948)

The membership of the Society is as follows:

Honorary Members.....	7
Sustaining Members.....	25
Members.....	1,597
Subscribers.....	272

These figures represent a substantial *increase* over last year's as follows:

Sustaining Members.....	19%
Members.....	55%
Subscribers.....	29%

The success of this unprecedented increase in membership of 55% is due in a large part to the hard work of Mr. William Meyer, Jr., Chairman of the Membership Committee, and to Mr. J. M. Haynie who ably assisted in initiating and carrying out the drive. No membership drive in any Society is a success without the cooperation of its members and the success of the present drive is ample evidence of the full-hearted cooperation of all. Due credit is given to the incentive offered our members by the Ford Bartlett Award. To date, twelve of our members have become eligible for this award by securing ten or more new members for the Society. The drive for new members is not over; so there is time yet for more of you to become eligible for the award and become an owner of a gold emblem of the Society.

As a result of the ballot on the classification of membership which was tallied in November, the new Constitution now provides for just three grades of membership—namely, Members, Student Members, and Sustaining Members. For the sake of the incoming President and Secretary, I trust that this decision will be accepted by all for some time.

The sale of the MANUAL OF PHOTOGRAMMETRY has continued steadily during the past year and our supply at the present time is practically exhausted. It will be of interest to the members to note that this venture has grossed in excess of \$19,000 to the Society. This is a tribute to the wisdom of the undertaking and to those men who put in so many long hours and strived diligently to make it a

success. A new Manual is in the making. This is a tremendous undertaking and we all wish the Publications Committee the best of success.

In conclusion, I must temper this rosy report with a somber note for our incoming officers. The lucrative source of income derived from the sale of Manuals was a major factor contributing toward the bright picture presented in the Treasurer's Report. This source of income is no longer available and if additional sources of revenue are not found it is doubtful whether the Society can operate during the coming year without dipping into its reserves. I thank you.

PRESIDENT SANDERS: You have heard the report. Even with the somber thought at the end, I think you can all see the firm foundation that we have behind us. Mr. Kerwin Linck is a modest individual, but I cannot let him get away as easily as he thinks he can by just walking off this platform.

The job of Secretary-Treasurer is a tremendous job. We recognized long ago the impossibility of handling the job to its fullest extent on a part-time basis. That was the reason for engaging the services of Commander Haynie. Mr. Linck was doing a fine job to the best of his ability when the switchover came. No matter how you look at it, Mr. Linck was taken out of a job and the job given to somebody else. You know how he took it, of course. He took it the way the rest of you would, for the best interests of the Society. But he was so big about it that it made an impression on me.

Then the unfortunate thing happened. Mr. Haynie was taken ill. I do not know whether it was the same day or whether it was two days later, but anyway I received a phone call from Mr. Linck in Washington.

It was not a question of what to do. He went over to Doc Haynie's office, and carried on the affairs of the Society without a break.

Now again for the best interests of the Society, we are to have a new full-time Secretary-Treasurer, and again Mike is going to go through the turmoil of turning over the Society affairs to a new man.

As long as your Society is founded on the efforts of men like Mike, we will never have to worry about whether this Society goes forward or backward. There is only one way it can go, and that is forward. Mike, I thank you.

Purely as a matter of business, we must have our books audited from time to time. Mr. Davidson will give the report of the Auditing Committee.

MR. JOHN I. DAVIDSON: Mr. President and Members of the Society: Harold Ettinger, the Chairman of the Auditing Committee, is not able to be here tonight and has asked me to report that several times during the past year, due to the changeover in officers, he has audited the books and always found them in good shape. A detailed report of the last audit is attached to the ledger in the Treasurer's hand.

PRESIDENT SANDERS: Thank you, Mr. Davidson.

Now we come to the awards portion of our meeting. The first award to be presented is known as the Sherman Fairchild Photogrammetric Award. That award was established several years ago in order to stimulate activity in the development of instruments for photogrammetry. However, the Deed of Award was extended to include other categories of photogrammetric effort, and thus far I believe the extension has actually been used for several different classifications of effort.

The award was won last year by Professor Earl F. Church, of Syracuse University. Professor Church is not a well man, and he was not here to receive the award last year. He, as recipient of the award last year, is chairman of the Awards Selection Committee for this year. Unfortunately, again his health does

not permit his presence here. Last year, the award was accepted for him by Professor Quinn, Professor Church's associate.

Tonight Professor Quin is going to present the award. As Professor Quinn says, he thinks the award is his. He received it, and is to present it tonight. I now present Professor Quinn of Syracuse University.

PROFESSOR A. O. QUINN: I am just exactly what the President says, a fraud in the spirit of your good Society in that I accepted this award, and now I am going to give it away, and the only thing I cannot do is get my name on it.

Professor Church has asked me to read the report of his Committee regarding the presentation of this award, and I am indeed happy to do that.

I am sorry that Professor Church is not here. Many of you have asked about him, know him very well, are very fond of him and think very highly of his work in photogrammetry. We all do.

It is unfortunate that Professor Church is having some little difficulty with his health. He would have liked to come here very much, but due to a fall just before Christmas he seemed to think it better not to come here at this time.

#### FAIRCHILD PHOTOGRAMMETRIC AWARD PRESENTATION

*Read by Prof. Quinn*

Mr. President, Members of the American Society of Photogrammetry, and Ladies and Gentlemen:

During the comparatively few years of rather spectacular development, both at home and abroad, in the fascinating field of photogrammetry, the progress has been reflected almost invariably by the analogous development of precise instruments designed and constructed for plotting topographic maps from the aerial photographs. In the evaluation of the progress in this science over specific periods, therefore, important consideration should properly be accorded to this particular phase of photogrammetry.

The accomplishments in the design and construction of the Kelsh Plotter, now under the sponsorship of the U. S. Geological Survey, have won such universal acclaim, that the Award Committee of your Society this year immediately turns to Mr. Harry T. Kelsh, in designating the recipient of the Sherman Fairchild Photogrammetric Award, symbolic of outstanding accomplishments in the field of photogrammetry during the past year.

Mr. Kelsh, a Philadelphian by birth but a Westerner by choice, has had many years of experience in surveying and mapping. His career with the U. S. Coast and Geodetic Survey, his contribution to the First World War in both the the Coast Artillery and the Air Force, his rather extensive ventures into business in the far West, his later experiences with the Coast Survey, the Soil Conservation Service, and finally with the U. S. Geological Survey, have been marked by unusual success. During the later years of this period, Mr. Kelsh has displayed a profound interest in photogrammetry, and has applied his originality and ingenuity to this specialized scientific field.

The new plotter has already aroused wide interest. Both the elimination of certain objectionable features of preceding instrument designs, and the incorporation of new highly desirable and valuable features, appear already to have won universal approval of Mr. Kelsh's new instrument.

It is therefore with great pleasure that I announce the unanimous decision of the Award Committee of the American Society of Photogrammetry, to present at this time to Mr. Harry T. Kelsh, the Sherman Fairchild Photogrammetric Award for 1947.

MR. KELSH: Mr. President, members of the American Society of Photogrammetry, and distinguished guests; I feel that the Fairchild award is an honor that anyone should be very proud to receive. I know that certainly I am indeed proud; and I wish to express my sincere thanks to whoever proposed my name, and to all those who voted for me.

While an idea may germinate in a single mind, the eventual product that the public sees is seldom the work of only one individual; and the Kelsh plotter, for which I have received this award, is no exception. About a year ago the U. S. Geological Survey became convinced of the merit of the idea, and offered to sponsor its further development; and for the last year I have had the assistance of a number of men in the Survey.



MR. HARRY T. KELSH

I am very glad to have the opportunity to express my thanks publicly for the splendid cooperation and assistance that I have received from Mr. Buckmaster and Mr. Lewis; and I can assure you that their contribution to the development of this plotter has been very substantial indeed. I can say little more to indicate my appreciation of this honor; but, if I may have a moment, I would like to say a few words to my fellow experimenters.

There were many times when I was very tempted to throw this plotter out the window. Encouragement was certainly helpful to me, and I hope these words may help a little in your work.

I am old enough that I can recall, as a boy, listening to a talk in which the speaker discussed the futility of trying to fly; and he based his arguments upon a number of simple natural laws, the most simple of which was that "resistance increases as the

square of the speed." Well, I'm certain that the Wrights, Curtis, and all the other since, broke no natural law, and I'm sure you won't. But maybe we don't always know as much about all these laws as we may think we do. So I suggest that you keep an open mind, and keep on plugging.

Many of your friends will encourage you, but there are always those ready to say "You can't do this, and you can't do that"; or "Henry Smith and William Brown covered that field of experimentation years ago." Well no matter what Smith and Brown may have known as to theory, they couldn't have produced this plotter years ago. Among other accessories needed for success, concentrated filament lights, or concentrated arc lights just weren't available.

Personally, I feel that the field for further development is wide open. We haven't even scratched the subject of the application of electronics to photogrammetry. And just as a final word, and I can assure you this comes from my

own experience; no matter how modest your ultimate contribution to the advancement of photogrammetry may be, you will be surprised how much you will learn that you never will learn in any other way. Thanks for your attention, and thank you all for the honor you have given me.

PRESIDENT SANDERS: We now come to the presentation of the Talbert Abrams Award. This is a significant award originated by Talbert Abrams to stimulate the writing of a superior type of article in our PHOTOGRAMMETRIC ENGINEERING. The Talbert Abrams Award, according to the Deed of Award, is always presented by the Vice President of the Society, and so I call upon Mr. Edmund S. Massie to make the presentation.

MR. MASSIE: Mr. President, Fellow Members and Guests: The September 1945 issue of PHOTOGRAMMETRIC ENGINEERING announced to its readers the establishment of the Talbert Abrams award. The primary purpose of the award is to provide an incentive to the membership to prepare superior type articles for publication in PHOTOGRAMMETRIC ENGINEERING.

A review of the magazine for the past two years should convince the reader that the award is accomplishing the intended purpose. The number of articles received has not only increased but quality, style and value of contributed material have improved.

The Deed of Award stipulates that the Award Selection Committee, composed of the First Vice President, the Chairman of the Publication Committee and the recipient of the award for the previous year, shall review and be guided by choices recommended by the membership in reaching a decision. Further the decision of the Committee is to be approved by the Board of Direction.

Because of the lack of voluntary recommendations from the members as a result of the invitation published in the third issue of the magazine for the year, your committee solicited expressions of preference. It is hoped that this important matter will be given more attention in the future in order that the Committee may more easily perform its duties and also to insure that the best received article meeting the requirements of the Deed of Award will be chosen. For this particular year, your Committee feels and the Board of Direction concurred that, based on the recommendations received, the choice made is the proper one.

Before announcing the winner of the award honorable mention should be given to the following individuals who were proposed and carefully considered.

Dr. Konstantin Pestrecov. Resolving Power of Photographic Lenses.

Harry T. Kelsh. The Kelsh Plotter.

E. L. Merritt. A Method of Determining the Depression Angle and Swing of a Terrestrial Photograph.

J. M. Calhoun. The Physical Properties and Dimensional Stability of Safety Aerographic Film.

G. C. Tewinkel. The Reading Plotter.

Duane Lyon. Methods of Supplementing Geodetic Control.

George H. Harding. A New Era in Surveying and Mapping Curricula.

From the standpoints of originality, practical and theoretical value, clarity of exposition and presentation of material which should be of much value to a group interested in a phase of photogrammetry which has not yet been given a great deal of attention, it is believed all will heartily approve the choice of the article "Aerial Surveys in Highway Location," by William T. Pryor. Mr. Abrams has given us this award to present to you Mr. Pryor, and in addition, here is a check for one hundred dollars which goes along with it.

MR. WILLIAM T. PRYOR: Thank you, sir. It is very difficult to express one's appreciation of such recognition.

## ACCEPTANCE OF THE TALBERT ABRAMS AWARD

Mr. President, Members of the American Society of Photogrammetry and Honored Guests; The Talbert Abrams Award is the greatest recognition that can be bestowed upon anyone interested in the progress of photogrammetry. After reading the many excellent papers that were published in PHOTOGRAMMETRIC ENGINEERING during the past year, it is difficult for me to realize that my paper brought me such recognition, in this the third year of its award.



MR. WILLIAM T. PRYOR

Free and complete exchange of knowledge is fundamental to progress and lasting benefits to everyone. Knowing this, Mr. Abrams established his award to create incentive for such exchange, in the pages of PHOTOGRAMMETRIC ENGINEERING. I feel sure that he, as the giver, is now enjoying the fruits of his foresight and service to others.

Mr. Abrams' objective in giving this award is in full accord with the objectives of the American Society of Photogrammetry. Those objectives are very clearly outlined in PHOTOGRAMMETRIC ENGINEERING for June 1947. I believe that they may be summarized in six words—to be of service to others.

My paper, "Aerial Surveys in Highway Location," was prepared in the hope that it too might be of some service to others. In it, an effort was made to bring the accomplishments of the photogrammetric engineer and the needs of the highway engineer together for their mutual benefit. The cooperative efforts of engineers work-

ing in both professions are focused on the task of attaining the best highway location between given terminal points, showing that the fullest use of photogrammetry in every stage of the location will assure such results. Now is an opportune time to acknowledge that past efforts are only a small part of that which can be accomplished.

We cannot all have the same opportunities and experiences, but through the pages of PHOTOGRAMMETRIC ENGINEERING we can all participate in the experiences of others. Ever since organized in 1934, the American Society of Photogrammetry has performed a real public service along those lines in all of its activities. I believe that its contribution to progress in developing methods of obtaining data and factual information for solution of engineering problems will greatly increase over the years. The faith and work of every photogrammetrist has helped to enlarge the scope of photogrammetry. Photogrammetry is now in the position where its growth has made it a modern tool to be used by engineers in every field of engineering. Its horizon has been broadened by every interested engineer who has recorded his experiences in the pages of PHOTOGRAMMETRIC ENGINEERING.

It is an axiom that engineers cannot accomplish anything without knowledge



of their problem and a means of solving it. Use of photogrammetry is an effective way to obtain timely knowledge about essential facts having an effect on the problem to be solved, wherever it may be on the earth. Photogrammetry provides the means of discerning results of the work of both nature and man on the surface of the earth and in many cases beneath the surface. Once such knowledge of the problem has been obtained, essential data and factual information at hand make it possible for the engineers to apply their know-how and solve the problem quickly, easily and effectively. As a highway engineer, I am confident highway engineers will make more and better use of the science of photogrammetry as time passes and as they become more familiar with the advantages of such use. Engineers working in other fields of endeavor will do the same. Photogrammetry is the promise of the future as an accurate, reliable, speedy and economical method of obtaining knowledge for the solution of engineering problems.

The service of PHOTOGRAMMETRIC ENGINEERING extends to everyone. Every issue is filled with papers and articles of benefit now and in the years to come. It is a service for the beginner and the most experienced engineer. PHOTOGRAMMETRIC ENGINEERING is a medium for pooling the know-how of a science unique in providing engineers with a knowledge of their problem. I am happy to be a member of the society which initiated and has kept this publication available. The articles printed in each issue are of benefit to everyone using photogrammetry in helping him do a better job. PHOTOGRAMMETRIC ENGINEERING is the outstanding publication of its kind in the world.

I sincerely thank you, Mr. President, Mr. Abrams, the Award Committee and every member of the society for the recognition bestowed with this award. May future years bring similar awards to other engineers for their untiring efforts to improve the science of photogrammetry and to increase the number of fields for its use.

PRESIDENT SANDERS: And now the past winner of the Talbert Abrams Award is to be presented a small replica of the large award which you see in front of you. The past winner, Mr. Duane Lyon, is in St. Louis, instead of being here tonight, and accordingly his award will be received by Mr. Robert Dixon. I will now call upon Mr. Talbert Abrams to make the presentation.

MR. TALBERT ABRAMS: Mr. President, Ladies and Gentlemen: It is always a pleasure to be here and see these awards passed out. It gives a certain degree of satisfaction that can only come from working with one's fellow men. I like to think of these awards as they are presented each year as some sort of a force, a reaction which is felt around the world.

It is a real pleasure to present this trophy each year. I am sorry that Mr. Duane Lyon cannot be here tonight. His work last year was outstanding. His contribution to science will go down in history as an article that had a great deal of bearing upon the work which is being carried on by many not only in the United States but in other parts of the world. In his absence it is my pleasure to present it to Mr. Dixon, one of his co-workers.

Mr. Dixon, I would like to have you take this trophy to Mr. Lyon with our compliments. Tell him I am sorry he could not be here, and thank him for returning the original trophy.

PRESIDENT SANDERS: I now have a very pleasant duty to carry out in connection with the announcement of the honorary member who has been selected for this year.

Twelve years ago I joined the ranks of the Fairchild Camera and Instrument Corporation. Shortly after I joined those ranks I was told that I was to look after our business in Canada.

Our Vice President was very astute. As I was about to take off on my first trip to Canada, he told me that the first place I should go to in Canada was a certain man's office and that that man would tell me more about photogrammetry and set me straight on more things than any other one man I could find. I did as I was told.

My good friend in Ottawa, Mr. Ames, took me over to see the gentleman in question, and from that time on, a very lasting friendship grew up which I cherish above many things. The man to whom I refer is a protégé—I believe I am correct in saying that—of the late Dr. Deville, who is probably the father of photogrammetry in this hemisphere.

The man whom we are honoring tonight has a unique practical knowledge and one of the soundest theoretical backgrounds of anyone that I am privileged to know in the business of photogrammetry. He is a Canadian, as you can well imagine from what I have said, and I am particularly happy that he is, because the presentation which we are to make draws one more close bond between our two countries. It is especially fitting inasmuch as we have with us an exceptionally large delegation from Canada.

It gives me great personal pleasure, and it is my great honor on behalf of the American Society of Photogrammetry to enlarge the very small and select ranks of our honorary members, numbering only seven after all of these years, by the addition of Mr. R. B. McKay, of Ottawa, Canada.

Mr. McKay, I am pleased to present to you the honorary member key, which goes with this honor. Step up and say a few words to us.

MR. R. B. MCKAY: I am unworthy of the honor myself. All I have done is to carry on the job for twenty-four years.

I like coming to Washington and seeing the boys, especially like last night. I am glad I went to bed early. All fooling aside, it is something that I will remember for a long time. I am a young man yet. I cannot make a speech at all. I will just say I thank you, and that I will always remember this evening's honor. (Editor's Note:—See biography of Mr. McKay in *Resolving Power* page 129.)

PRESIDENT SANDERS: The fourth award of the evening is a new award, the Ford Bartlett Membership Award. This award is presented throughout the year by the Chairman of our Membership Committee. I will ask Chairman William H. Meyer, Jr., to come forward and make the presentations. Mr. Meyer.

MR. WILLIAM H. MEYER, JR.: Mr. President, Members of the Society and guests: I regret that Mr. Bartlett is not able to be here this evening to have the pleasure of seeing these awards being made or of hearing the announcements. Unfortunately, he had to go to California. I am sure he would have enjoyed the opportunity of realizing the stimulus which this award has had in securing so many new members for the Society this year.

Many members exerted much effort in endeavoring to secure the necessary number of members to make them eligible for the award. Some made the grade. I hope those who did not quite make the grade will not be discouraged but will continue with their efforts.

The Ford Bartlett award is made with the purpose of stimulating interest in the Society and making it possible for the Society to carry on in a more elaborate and thorough fashion by having more members, more income, and a wider distribution of the literature and information.

Mr. Bartlett is President of the Lockwood, Kessler and Bartlett Engineering organization. They have for years been engineers and surveyors, and recently they added photogrammetry to their tools of industry.

To my mind, it is an interesting thought that an engineering organization which for years had used ground surveying methods, is now seeing fit to add

photogrammetry to its divisions and is actively pushing and investigating this new form of surveying. I should not say that photogrammetry is new to us, instead it is new to the engineering industry.

The award consists of a gold pin or charm emblem. Any member who secures ten or more new members is entitled to receive the award. We thought that it would be more fitting to make these awards during the year as soon as anyone became eligible, rather than to have the winners wait until this particular meeting. I will read the names of the winners. If these people are here I hope that they will rise. They deserve recognition and thanks for their efforts in helping the Society secure approximately six hundred and some odd new members during the year.

I will take these alphabetically. Ralph M. Berry. Mr. Brevoort, of Chattanooga? Evidently they are still out trying to get new members. Lt. Henry A. Harrington, of the Canal Zone. Kenneth B. Jackson, Professor at the University of Toronto, Toronto, Canada. (Mr. Jackson arose.)

MR. MEYER: Chester Kowalczyk. (Mr. Kowalczyk arose.) Lester Lande. Mr. M. Kerwin Linck. (Mr. Linck arose.) I should add that Mr. Linck secured these members while he was not Secretary-Treasurer of the organization. Mr. Lyon. I also have the privilege of including my own name so as to save my face.

Now we have a very interesting situation. Mr. L. Ray Smart secured the outstanding number of sixty-six new members. We could not award Mr. Smart a row of bars and pins that would go all the way down his coat. So in lieu of that we decided to give Mr. Smart fifty dollars in cash.

MR. SMART: Thank you very much.

MR. MEYER: His brother is also very active in the interests of the Society. Mr. William Smart is entitled to the award of a pin. Is your brother present?

MR. SMART: He was unable to get here tonight.

MR. MEYER: Would you take this for him, please?

MR. SMART: I would be glad to.

MR. MEYER: Is Mr. Wood present? (Mr. Wood arose.) I am sure you all agree with me in extending our thanks to these men who have made such an outstanding contribution through securing new members. I want to thank personally all members of the Committee and those of the Society who helped so materially in making it possible for us to add about 60 per cent to our membership. Thank you.

PRESIDENT SANDERS: We will now have the report of the Ballot Committee, to be given by Mr. J. Blynn Welden.

MR. WELDEN: Mr. President, members and guests of the American Society of Photogrammetry, your ballot committee consisting of Mr. William A. Fischer and myself wish to make the following report:

Total ballots received and counted.....	495
For President, Edmund S. Massie, Jr.....	467
First Vice-president, George G. Tschume.....	464
Second Vice-president, Philip G. McCurdy.....	463
Directors	
Irving C. Gardner.....	268
Prof. A. J. McNair.....	253
Mark Hurd.....	241
Col. G. G. Lorenz.....	233
Dr. Frank A. Melton.....	232
Robert H. Kingsley.....	227

The first five directors, Messrs. Gardner, McNair, Hurd, Lorenz and Melton are elected for a three year term. Mr. Kingsley is elected for two years to fill the unexpired term of Mr. Philip G. McCurdy.

PRESIDENT SANDERS: I now call upon the newly elected officers and directors to come up to the platform and be seated. This is really the most pleasant part of the meeting. Usually making a speech is not too pleasant, but this one is an exception because it is the retiring address. I often thought in the past as I heard the retiring presidents make their apologies, just as I am, that they were putting on an act of modesty, but I have learned by experience, as my successor will also, that it is really a happy occasion.

#### ADDRESS OF THE RETIRING PRESIDENT

*Revere G. Sanders*

Members and guests of the American Society of Photogrammetry, my term as president of your Society is about to end. Prior to turning over the reins of leadership to your newly elected president, I will review briefly the major accomplishments of the past year. During the course of this three day meeting, you will learn of the technical progress of the past year in the field of photogrammetry. My remarks, therefore, will be confined to the affairs of the Society.

Since the accomplishment of the basic objectives of the Society is dependent upon committee activity, I put a great deal of emphasis on this phase of the year's work. In this connection, I also put into effect a pet plan—namely, to give opportunities to members to be committee chairmen or committee members who have not participated previously. You will recall the request for volunteers which I made at this meeting a year ago. The response exceeded my fondest expectations. The committees thus formed performed their work with zeal and enthusiasm. In the past, for the most part, annual committee reports have gone into the archives of the Society. It seemed to me that the findings of the 1947 committees should be made constantly available to the membership. Thus it is that you have seen quarterly reports published in each issue of our Journal.

I have expressed my appreciation individually to these committee chairmen and members who have served me so well. I urge you to do likewise, because you are the ones for whom they really labor.

Although circumstances did not permit a semi-annual meeting in 1947, your Program Committee arranged three impressive meetings during the year. Last Spring the meeting concerned the Navy expedition to the Antarctic and featured Rear Admiral R. E. Byrd and Captain R. S. Quackenbush, Jr. as speakers. It was then I realized that our program chairman, Chester Kowalczyk, and his committee men were not only hard workers, but were also stage managers and advertising experts as well. The meeting was attended by well over 1,000 people among whom were many high ranking officers of the Army and Navy.

The following meeting was a highly successful technical panel discussion on magnetometer surveying. In November, Dr. Schermerhorn, ex Prime Minister and eminent photogrammetrist of Holland, paid us an unexpected visit. A highly interesting meeting was hastily arranged.

The matter of classification of Membership was handled by the Board of Direction during the year. As a result of the petition that was submitted and discussed at this meeting last year, a ballot was sent to the membership. The result is that the Constitution will be further amended so that the original single membership will be official. I hope that our Society will not again have to go through such an expense. The cost amounted to several hundred dollars and in addition imposed a tremendous burden upon the Board of Direction. This could all have been avoided if you members had taken the time to read the material sent to you and if you had voted on the new Constitution when it was initially

submitted to you. Let me urge you, therefore, in the future, to take seriously the various items of business sent to you for action.

I placed my greatest emphasis on the enlargement of our membership and I have derived a great deal of satisfaction from the results of this effort. The success achieved is due in great part to the Chairman of the Membership Committee, Mr. William H. Meyer, Jr. However, the real credit and my whole-hearted thanks go to you individual members who took to heart the slogan, "Every Member Get a Member in 1947." Many members did not stop at just getting one new member, but went right on getting more. The high man of the year was Mr. L. Ray Smart with a total of 66 new members. The full effect of the membership drive is best shown by the figures.

	Jan. 1, 1947	Jan. 1, 1948
Sustaining Members	21	25
Subscribers	211	272
Corporate Members	1,033	1,597

This phenomenal increase in Corporate Members was immeasurably stimulated by the creation of a new award—The Ford Bartlett Membership Award, sponsored by the firm of Lockwood, Kessler and Bartlett of Brooklyn, New York.

Our high hopes in the creation of a full time Secretary-Treasurer came crashing down on our heads last October. The man selected, Lt. Comdr. J. M. Haynie, USN, Retired, after doing a wonderful job for eight months, was stricken with a heart ailment and hospitalized for about three months. His doctor made it clear at once that he could no longer carry on his duties. Hence, we sadly accepted his resignation. The duties were taken over temporarily by Mr. Kerwin Linck. However, I am pleased to announce now that we have been fortunate in obtaining the services of another man experienced in the field of surveying and mapping who will fill the post of Secretary-Treasurer. Your new full time Secretary-Treasurer is Mr. T. W. Norcross, recently retired from the Forest Service of the U. S. Dept. of Agriculture. I know you all wish him, as I do, complete success.

1947 has been a good year for us. Our Society is growing in size and strength because it has a purpose and because it is serving that purpose. It is strong because there are people in it who labor long, unselfishly, and at great sacrifice to themselves for the best interest of the Society. Years ago, one of these stalwarts literally carried our Society by the strength of his own labors. He was Secretary-Treasurer and Editor all rolled up in one. He has been in the forefront of photogrammetry in his business capacity for many years and has contributed to the progress of the art. Our Society has a bright future, because the man I have been referring to, and who will lead us forward, is your new president, Mr. Edmund S. Massie.

### INAUGURAL REMARKS

*Edmund S. Massie*

This marks the beginning of the 14th year of the existence of the American Society of Photogrammetry. Its conception dates from the meeting of 12 individuals in the home of Commander Scott Reading in 1934. Few of us realize who was responsible for the starting of this organization. Because of the general lack of knowledge it seems well to list the names of these individuals: Col. C. H. Birdseye, Commander O. S. Reading, and Messrs. R. K. Bean, W. N. Brown, J. L. Buckmaster, C. W. Collier, C. H. Davey, L. T. Eliel, Hans Gruner, T. W. McKinley, J. W. Ninneman, M. S. Wright. They met on July 29, 1934. Another

organization group meeting was held on August 14 of the same year. At the end of the year the Society had a membership of approximately 200—a somewhat auspicious beginning. We do not know what growth was anticipated by this small group and it would be interesting to know what the reactions would have been at that time if it had been forecast that members would number in excess of 1,500 at the end of 1947. It is hoped that this number will be greatly increased during the coming year.

That same group undoubtedly had plans for ways in which to advance knowledge in the science of photogrammetry, to act as a clearing house for the distribution of information pertaining to the science, and to do all possible in the furtherance of the objects and purposes of the Society. Whatever those plans may have been we know that untiringly have each of the elected presidents sought and secured wholehearted cooperation from all members of the Society. Continued support is earnestly requested since it is only through such cooperation that the elected officers can hope for further advancement.

The Society has accomplished much in its comparatively short existence. Preparation of Standard Specifications for Aerial Photography which were later adopted by the Federal Government; Precision Camera Specifications; Bibliography of Photogrammetry; Specifications for Map Accuracy which closely resemble present National Map Accuracy Specifications; and the *MANUAL OF PHOTOGRAMMETRY* are successfully completed projects previously cited as convincing arguments for such a statement. To these can be added several others in various stages of completion, knowledge of which is not so widespread. A complete index to the contents of the journal for the first 10 years should be ready for publication this year. The work of the Civil Service Committee covering Federal Civil Service classification has been forwarded to and accepted by the Civil Service Commission for use in connection with its work in establishing photogrammetric grades.<sup>1</sup> Since the stock of the *MANUAL OF PHOTOGRAMMETRY* is exhausted, work has been initiated on the preparation of a revised manual. This task will probably be completed not sooner than 1949.

No organization can rest on its laurels. It must go forward, striving for greater attainments or else it will stagnate and go backward. The Society does not have funds with which to conduct research but it can, through its members and committees, promote research, keep abreast of developments and analyze, coordinate and publish the results of such endeavors. Your attention is called to the unobtrusive reports contained in the December 1946 issue of *PHOTOGRAMMETRIC ENGINEERING*. Establishment of horizontal control by radar and controlled flying of parallel flight lines are mentioned. There is little reason to doubt that both horizontal and vertical control may be established by some electronic method determining if need be the position and elevation of the nadir point of each exposure.

All such developments properly coordinated and utilized will result in expediting an already accelerated mapping program. Although accelerated in comparison with former years, progress is woefully inadequate to meet the real needs of this country. At the present rate of progress many scores of years will be needed to map this country satisfactorily. Requirements have not been made known in the past. So often has it been necessary to inform map users of the existence of only old, inadequate and inaccurate maps that the user has ceased to believe it possible to obtain what is actually needed. It is the duty of every member of the Society to inform the map user that the only way to secure the sort of

<sup>1</sup> See page 181 of this issue for complete report.

map needed is to demand it. If the public demands good up-to-date maps, ways and means will be found to make them.

Question may arise in some minds as to the future of photogrammetry if the national mapping program is accelerated to the extent that complete map coverage is available in a generation. There never has and never will be a time when mapping is complete. As long as there is progress, changes will be made and these will require constant revision of existing maps or preparation of new ones to meet more stringent requirements. Also new uses of photogrammetry will arise.

Thus far the Society has centered its interest on photogrammetry as it pertains to mapping. This is natural since that small group meeting in 1934 was composed of map makers. But that group was sufficiently far-sighted not to limit the aims of the Society to photogrammetry as it pertains to the making of maps. Many other uses are being made of the art and these like mapping will become more important. The future of the Society is bright. There is no reason to believe but that we can have a large number of members interested in other phases of photogrammetry; that our magazine will carry material covering these other phases, and that our meetings will be expanded so that those interested in photogrammetry as applied to such as medicine, astronomy, forestry, geology and other sciences can participate in discussions with others interested in these subjects.

My first duty as the newly elected President is to discharge officially our past president. He thinks he is through, but he has one other duty as past president. Mr. Sanders, will you come forward and let me present this key to you? I do not know exactly when this custom was started. It was not at the beginning of the Society, but several years ago it became the practice to present a golden emblem of the Society of Photogrammetry to the retiring president. Mr. Sanders, it is with much pleasure that I present this to you and say a job well done.

MR. SANDERS: Thank you, Mr. Massie.

PRESIDENT MASSIE: All of you know that while the main offices of the Society are here in Washington, we have members all over this country. As a matter of fact, we have them all over the world. The Constitution provides for local chapters of the Society. We are fortunate that we have concentrations of photogrammetrists in other places. We have two such local chapters. One of these is at Sacramento, California; the other is at Chattanooga, Tennessee.

I have a letter from the Sacramento chapter. We are informed that Mr. Ray Hill, the current President of the Sacramento section, is unable to be here, and that he has requested Mr. Harrison Ryker of that chapter to make the report to the Society.

MR. HARRISON RYKER: The report is very brief, Mr. Massie. It was written, but it is lost in my brief case.

The Sacramento chapter re-formed early last year, under Mr. Ray Hill as President. It has had interesting meetings almost monthly. The attendance has averaged forty or fifty at each meeting.

At the meetings, guest speakers give talks on various phases of mapping. We have had a good time at the meetings; for us in Berkeley it is an excuse to drive eighty miles, have a good dinner and maybe a little visit before the meeting. Colonel Kaye who is retired now and living in Berkeley has been at some of these meetings. I saw him the day before I left, and he asked me to give everyone his very best regards, and say that he is sorry he could not be here. He drops in every once in a while and he still has the kind of a mind that all photogram-

metrists have, an inquiring mind, the type of mind which says anything is possible. He is always interested in new developments.

The Sacramento chapter is going ahead on a fine basis. Thank you.

PRESIDENT MASSIE: Thank you very much. That is a fine report of the activity out there.

I have a letter from the Chattanooga chapter. I will read a portion of it.

"The Chattanooga chapter has elected officers for 1948 as follows: President, Otto Gutenson; Vice President, Benjamin B. Lane; Secretary-Treasurer, H. H. Bradford.

"Board of Directors: The first three names whose offices expire in 1948: Frank J. Salmon, Arthur F. Striker, Benjamin B. Lane. The next two expire in 1949: F. H. H. Kratz and B. L. Soehle. The last two expire in 1950: C. L. Peckinpaugh and Morris M. Thompson.

"A meeting of the Board of Directors was called for Friday, January 16, to formulate a program for the year. Membership drive and schedule of meetings are important items on the agenda."

The next paragraph that I propose to read is one which is of much interest for more than one reason.

"I have received some inquiries as to whether the Ford Bartlett Membership Award will be in force in 1948. If so, credit Mr. Otto Gutenson with the two new members sent with this letter. I am hoping that the award will prove a definite incentive in our proposed membership drive."

The reason I say this is of so much interest is that while Mr. Meyer was named as committee chairman for membership early in the year, it is a difficult job to get a thing of that kind started. It was much later in the year when the Ford Bartlett Membership Award was offered to the Society and accepted by the Board. Actually, all of these good reports which you have been hearing, do not date over the entire year. These awards were given in many cases for only two or three months of work. I do not believe there has ever been a year in the history of the Society when the membership has been increased as it has this past year. We know that Bill Meyer is responsible in a large measure for the results. He will say that the members of the Committee are responsible. That is right to a certain extent, but you must have somebody to keep them moving.

Mr. Meyer tells me that he will head up the membership committee next year, and Mr. Bartlett has indicated his willingness to offer the award during the coming year. It is our feeling that due to the lateness of the year when we started, whatever those people have done to date should count toward what they do in 1948. I hope the Board will go along with us, and that we can continue the great work started in 1947.

The next item on the agenda is new business which may come up for discussion by the members of the Society at this time. The floor is open for any new business.

MR. SANDERS: I suggest that you make the announcement that you asked me to make regarding Dr. Scherpbier.

PRESIDENT MASSIE: Thank you.

We are very fortunate in having Dr. Scherpbier with us. The International President has been in Holland since the 1938 meeting in Rome. That office usually stays in a country for four years. We have had the unpleasant experience of a war in the last period, and the International Society was pretty much abandoned.

When conditions changed and it was beginning to look much brighter, Professor Schermerhorn was President—and still is President—of the International



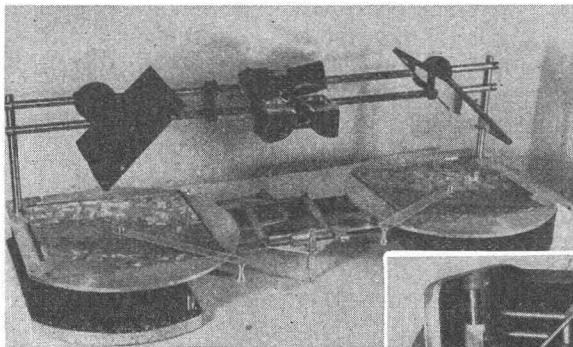
Society. He also was the Prime Minister of Holland, so was not able to do much for the International Society. He did have a fellow officer of the International Society in Dr. Scherpier, who has practically run the International Society. We were fortunate to have him visit us once before. All of us enjoyed his being here.

As you know, the International Society meeting this year is planned for September 1 to September 10 in Holland. They are working on the program. Dr. Scherpier has brought a few copies of the tentative program as it stands now. There was not a sufficient number of copies to lay them out where anybody and everybody could pick one up, but anyone interested in that meeting can see a tentative program at the registration desk tomorrow.

Is there any other business? If not, the meeting will stand adjourned until tomorrow morning.

The meeting adjourned at ten-fifteen o'clock.

## NOW AVAILABLE



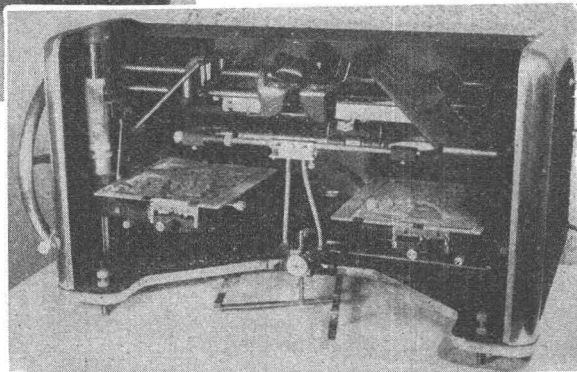
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