

OUR MULTI-TALENTED MEMBERS

Fred Black in Guelph
Got the following from
The Hamilton Tiger Cats

October 11, 1977

Mr. S. W. (Fred) Black,
573 Woodlawn Road East,
GUELPH, Ontario.

Dear Fred:

We're in deep trouble?

As you are well aware, we here behind the scenes, have made several changes in our line-up since the beginning of the season, all for the cause of a better football team.

We are still woefully inept. In spite our present dilemma we must remain optimistic and will try our damndest to get to the finals.

Well, why I am writing to you today is this, you are a very busy person as your secretary has informed me and with your enthusiasm for this club, your services would be a great help to us.

At this most crucial time in the season we must dig very deep into our own barrel of tricks. We desperately need whatever help is available. Fred you have had such a tremendous background in hockey, basketball, bridge, liar's dice, football, snooker, ping pong, checkers, golf, wrestling, monopoly, cribbage, boxing, (your partners have advised me of your many accomplishments, particularly their sore arms and bruised hands) that your presence alone would be a morale booster to our team. If nothing else, you could keep the guys in line — we haven't any discipline anymore.

You have of recent years developed a super pot and with your stature although you are "slightly over the hill" we would like to offer you a 5 day trial for centre spot on the front line.

Your presence in the line would probably attract the opposing defensive team to such an extent that we just might get something going; I might even take a try at quarterback if you would agree to be my centre.

Looking forward to much improved conditions for the balance of the season.

We will await your reply before we make further changes in the position offered. Would you kindly get back to me as quickly as possible — before the season runs out — please!

Sincerely,
Robert Shaw,
General Manager and Coach

Photogrammetry An Abstract of Articles

Compiled by the A.O.L.S.
Photogrammetric Committee

SECTION I AERIAL PHOTOGRAPHY AND CAMERAS

	REF:
Camera Vibration Measurements, P. D. Carman	ISP - /72
The Block Adjustment of Colour in High-Altitude Photography, S. H. Collins	Congress
Image Quality Effects on Image Geometry of a Metric Camera, S. K. Ghosh and L. M. Martucci	"
Experiments with Aerial Photography Using Different Coloured Signals, A. Smedberg and A. Bergman	"
The Calibration of Aerial Cameras for Practical Purposes, A. Smedberg and E. Welander	"
Modulation Transfer Functions of Photogrammetric Camera Systems, R. Welch	"
Image Geometry — Aerial Cameras, H. Ziemann	"
On Photogrammetric Distortion, H. Scholer	ISP - /76
Report of the Working Group on Image, Geometry, H. Ziemann	"
The Correction of Lens Distortion with Polynomials, Dr. A. Bujakiewicz	CIS Publ. Vol. 30, No. 2 June 1976
The Terrestrial Camera — An Effective Surveying Tool, Dr. J. Hohle	ACSM Fall 1976

SECTION II PLOTTING THEORY, METHODS AND INSTRUMENTS

The Zoom Transfer Scope, A new Photogrammetric Instrument, W. R. Ambrose and R. R. McHail	ISP - /72 Congress
Methods and Instruments for Production and Processing of Orthophotos, T. J. Blachut	"
Developments in Photogrammetric Instrumentation in North America, 1968-72, D. A. Bucci	"
Stereoplotter Interfaced with Programmable Desk Calculator, E. Dorrer and B. Kurz	"
On Digital Processing and Analysis of Image Data, U. V. Helava, J. A. Hornbuckle and A. J. Shahan	"
Man-Machine Photogrammetric Systems and System Components, Z. Jaksic	"
Photogrammetric Procedures for Map Revision, G. Krauss ..	"
Application of Automated Equipment in Photogrammetry, B. Makarovic	"
Tests for Coordinatographs, W. Marckwardt	"
Tests for Monocomparators and Stereocomparators, R. P. Mark	"
Instruments for Measuring Digital Terrain Models, R. Schewebel	"

Continued on following pages



THE SCENE FROM 6070

Changes in the Official Register

September 27, 1977, Eberhardt, Dieter, No. 1439, New Registration.
 September 27, 1977, Bowden, Graham, No. 1440, New Registration.
 September 27, 1977, Wong, Stephen, No. 1441, New Registration.
 September 27, 1977, Kennedy, John, No. 1442, New Registration.
 October 17, 1977, Conway, Victor, No. 1003, Deceased.
 October 3, 1977, Ertl, Otto, No. 1215, Suspended (dues).
 October 24, 1977, Ertl, Otto, No. 1215, Re-instated.
 December 1, 1977, Acheson, Murray, No. 1084, Re-instated.

Seminars

It appears that seminars are high in priority for the members of our Association. The Business Practice Seminar in September attracted 250 members.

A joint Seminar of the AOLS and ACSTTO on Co-ordinates was scheduled for late November. The Committee planning this seminar hoped that we would have 150 to 200 participants. 200 applications were received within seven days of the notices being sent out. Due to the demand for more registrations, the seminar was relocated to a larger room and the number accepted for this seminar extended to 370. It is interesting to note that the split between AOLS members and ACSTTO members was almost 50/50.

The Seminar Committee is aware that the number for the seminar was larger than is desirable for a good learning experience. However, this has been the first year that we have had seminars on a regular basis, and we have learned much from these seminars.

It is hoped that in the coming year seminars can be planned so that a smaller group will be present for the seminar and we will look into holding smaller seminars or workshops in different locations.

The one exception to this will be, of course, the seminar on the day preceding the Annual Meeting. This year the seminar is to be on "The Surveyor and the Law". This will deal mostly with Court Room Law and there is an announcement elsewhere in this magazine regarding this seminar. As with our other seminars pre-registration is mandatory.

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Tests for Instruments for Different Rectification and for Relief Representations, K. Szangolies
Features and Design Parameters of the Wild AVIOMAP System, G. Bormann	ISP - /76
An Automated Orthophoto System, D. S. Clegg .....	..
Software Aspects of Calculator — Supported Stereoplotting, E. Dorrer .....	..
Wild AVIOTAB TA 1 — An Electronically-Controlled Plotting Table, U. Frey .....	..
The Epipolargram — A Useful Means for Stereodigitizing and Interpretation of Aerial Photography, F. Goudswaard .....	..
Analytical Stereoplotters in A Distributive Computer Network, R. J. Helmering .....	..
The Performance Capability of the Transmark Laser Point Transfer Machine, K. Herda	ISP - /76
The Zeiss G-2 Stereocord — A Simple Stereoplotter for Computer-Supported Plotting, D. Hobbie .....	..
Automation of Photogrammetric Restitution with Orthophoto Technique, K. Szangolies .....	..
Format Limiting Device — A New Device for Rationalizing the Work with Stereoplotters and Differential Rectifiers, K. Szangolies .....	..
On the Definition of the Accuracy of Stereoplotters, K. Szangolies .....	..
TOPOFLEX — A New Double Projector for Stereomapping Map Revision and Training, K. Szangolies, and G. Bauer .....	..
TOPOMAT — A New Fully Automatic Photogrammetric Restitution System of Veb Carl Zeiss Jena, K. Szangolies and W. Kunze .....	..
TOPOMAT — Design of A New Photogrammetric Restitution Instrument with Automatic Parallax Elimination, W. Tiedeken and H. Martin .....	..
Report on Development of Analogue Instruments, H. C. Zorn .....	..
Koppe Errors in Automatic Contouring, Dr. G. C. Gustafson	ACSM 1977 Congress
Choroplethic Plotter Mapping for a Small Minicomputer, M. S. Monmonier and D. M. Kirchoff .....	..
The Effects of Manual Plate-Centering on the Accuracy of Independent Model Triangulation, P. R. J. Boniface	Photogrammetria Vol .32, No. 6 Feb. 1977

SECTION III AERIAL TRIANGULATION

Raising the Accuracy in Height by Improvement of the Image Coordinate in the Block Adjustment According to H. H. Schmid, H. Bauer and J. Muller	ISP - /72
Aerotriangulation With Independent Models Using Affine Transformations, G. B. Das .....	..
Theoretical Accuracy — Models for Block Triangulation, H. Ebner .....	..
Feasibility Study into Aerial Triangulation Techniques, E. E. Derenyi and A. Maareka .....	..
The Planimetric Adjustment of Very Large Blocks of Models: Its Application to Topographical Mapping in Canada, J. R. R. Gauthier, B. A. Low and J. H. O'Donnell ..	..

Analytical Strip Adjustment Procedures, N. Gopalan .....	..
The ISP Investigation into the Accuracy of Photogrammetric Triangulation, K. Kubik and J. Kure .....	..
A New Mathematical Model for Independent Model Aerial Triangulation, A. Maareka .....	..
The Determination of Projection-Centre Coordinates, P. B. Stewardson .....	..
Accuracy of Block Triangulation, J. Talts and K. Torlegard ..	..
The Use of Auxiliary Data in Aerial Triangulation, Dr. J. M. Zarzycki .....	..
Geometrical Distribution of Vertical Control and the Simultaneous Adjustment of Auxiliary Data in Independent Model Triangulation, Dr. M. M. Allam, C. K. Wong and C. K. Chaly	ISP - /76

The DIGICART Data Processing System and its Applicability to Surveying and Mapping, A. Beyer and P. Hanke .....	..
Independent Model Triangulation with Auxiliary Vertical Control, W. Faig .....	..
Analytical Photogrammetry for Aerotriangulation and Numerical Plotting, P. V. Zafirov .....	..

**SECTION IV
TOPOGRAPHIC, CARTOGRAPHIC AND
CADASTRAL APPLICATIONS**

Application of Orthophotomaps in Highway Work, W. Blaschke	ISP - /72
Highway Application of the Analytical Plotter, Dr. S. E. Masry .....	..
Performance and Applications of Orthophotomaps, R. R. Mullen, M. C. van Wisk and J. Visser .....	..
The Use of Modern Methods in Highway Design in Sweden During the Years 1968-72, C. O. Ternryt and B. Adolfsson .....	..
Numerical Cadastral Surveying Test by Analytic Photogrammetry, M. Sautreau .....	..
Accuracy of Spot Heights and Determination of Minimum Interval for Plotting, G. C. Agarwal	ISP - /76
Planning for Photogrammetric Surveys — An Analysis of the Factors Involved in the Context of Developmental Mapping, G. C. Agarwal .....	..
A Report on First Experience of Data Acquisition for the Wild AVIOPLAN Or-1 and the Planned Programme of Work in the Federal Department of Standards and Surveys, J. Bernhard .....	..
Digital Restitution of Single Photographs for Cadastral Applications, J. Besenicar .....	..
Qualitative and Metric Research on Orthophotosat 1:5,000 Scale, G. Bezoari, R. Galetto and C. Montj .....	..
Large Photo Scales for Large Scale Plotting and Mapping, W. Brindopke .....	..
Digitizing and Editing of Large Scale Photogrammetric Data, J. Denègre .....	..
Photogrammetric Point Determination of the Track Surveying — (Railways), K. Kothe .....	..
Applications of A Digitally-Controlled Orthophoto Instruments, K. Kraus .....	..

You must also bring along your confirmation slip to the seminar as indication that you have paid.

We do thank those who have co-operated in this matter. At the last seminar no members attempted to register at the door with only a few forgetting their confirmation notices.

Publications

The Association offices these days have taken on the appearance of a book store. We are attempting to have on hand publications which will be of interest to the membership. As advertised in the quarterly, and as shown at the seminars, we have both Planning Packages and transcripts from our seminars available. Other publications are also being added to the available list. Some members have pointed out that they would like certain Acts available from the AOLS office. This will be looked into at the bookstore, and if they are available, they will be stocked in limited numbers at the Association offices.

I would remind you that all orders for publications must be prepaid.

Examinations

For your information, the Examinations of the Association in 1978 will be held as follows:

In May, the Part I Examinations under By-law 95 will be scheduled. These six examinations include - Geodetic Astronomy, Geodetic Adjustments, Geodesy, Town Planning, Electronic Surveying and Photogrammetry.

Also in May, the AOLS University Equivalent Examinations will be given in the following subjects:

Remote Sensing, Photogrammetry, Land Surveying, Introduction to Surveying, Professional Practice, Measurement Theory and Adjustment of Observations, Geodesy, Data Management, Survey Law III, Survey Design and Synthesis.

In December 1978, examinations will be scheduled in the Part II By-law 95 subjects. These will include:

Legislation, Descriptions, The Surveys Act, Law of Evidence, Real Property Law, History of Surveying, Professional Practice, Land Boundaries.

Also in December will be scheduled the AOLS University Equivalent Examinations in the core courses which are given as Fall courses at the University. Tentatively Scheduled are:

Survey Law I, Survey Law II, Survey Control, Geodetic Astronomy, Computer Programming.

As you will note from the above,

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examinations are scheduled only once a year in each subject. There are very few students left under By-law 95 resulting in between 3 and 10 students writing each examination. From all indications by the Fall of 1978 there will be only five or six students at the most writing any one examination in Part II by-law 95.

If a student wishes to write any examination **not** listed above, please have him contact the offices. It is the student's responsibility to be aware of the time-
tabling of the examinations after the initial notices are sent out.

Peters and Jones Diaries are Donated

BY MARY SMITH SCOTT

The Diaries of Samuel Peters and Charlie Jones are being donated to the London Public Library by Farncomb & Kirkpatrick Limited of London. They will be stored at the Grosvenor Lodge on Platts Lane, London.

Samuel Peters was a pioneer Surveyor in Southwestern Ontario in the mid 1800's, and his diaries are a treasure of historical material. He was interested in many things. He was an accurate and careful Land Surveyor, a neat draftsman, a public spirited citizen, an active Churchman, and a politician. In 1854 he and his family moved to their new home, Grosvenor Lodge on Platts Lane in London. Today it is in good condition, and a worthy monument to this great man. The Peters family have given the home to be used as a museum for Southwestern Ontario, and it is under the supervision of the London Public Library Board.

C. A. Jones was a Provincial Land Surveyor who purchased the business from Samuel Peters. Mr. Jones was an Artist as well as a Land Surveyor. He made his survey sketches colorful with pastels.

The Diaries are full of the spirit of Peters and Jones. The well-worn covers tell of hours of labour, and the years gone by. The metal clasps that hold the books closed reveal that care was exercised to choose books that were well constructed. The pages are tattered and they tell the story of yesteryear. They are treasures indeed!

For a hundred years they have been in the Archives, which are now the property of Farncomb & Kirkpatrick Limited of London. They are regarded with pride by the people of this Company, and have created a feeling of security because our roots go deep, and our predecessors

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Terrain Digital Model in Land Reclamation Works, N. Negut	ISP - /76
Report on the Commission C "DEEPE-DORDRECHT" Experiment, J. Timmerman	"
The Use of Large-Scale Orthophotomaps for Cadastral Surveys and For Rural and Urban Development Projects, J. Visser	"
The Aerial Triangulation Use in the Cadastral Surveys, Dr. N. Zeghern	"
Optimum Sampling for Digital Terrain Models: A Trend Towards Automation, O. Ayeni	"
Burntwood River Mapping Project — Panel Discussion — Province of Manitoba	CIS Abstracts
On-Line Computational Photogrammetry As Surveyors Tool, Z. Jaksic	"
Gestalt Contours, B. A. Crawley	CIS Publ. Vol. 28, No. 3 Sept. 1974
Terrain Parameters Directly from A Digital Model, S. H. Collins	CIS Publ. Vol. 29, No. 5 Dec. 1975
Review of Interpolation Methods for Digital Terrain Models, G. H. Schut	CIS Publ. Vol. 30, No. 5 Dec. 1976
Use of Photogrammetry in the Survey and Resurvey of the Public Lands, R. T. Barron	ACSM Fall 1976
Methods for Transferring Survey Detail to Photographs, Dr. S. E. Masery	ACSM Journal Vol. XXXIII No. 1, Mar./73
Accuracies of Analytic Triangulation in Applications to Cadastral Surveying, D. C. Brown	ACSM Journal Vol. XXXIII No. 3, Sept./73
How Photogrammetry Aids the Surveyor, C. H. Croom	ACSM Journal Vol. XXXIII No.4, Dec./73
Surveying by the Aerial Photogrammetric Post Block Adjustment Method, D. C. Merchant	ACSM Journal Vol. XXXVI No. 1, Mar./76
Interactive Systems for Large Scale Mapping, F. S. Kroll	FIG - /77
Interfacing Analytical Photogrammetric Instruments with Digital Cartographic Systems, Z. Jaksic	"
The Development of an Automated Standard Mapping System in the South Australian Department of Lands, R. McLeod	FIG - /77
An Integrated System for Cadastral Survey Utilizing Digitization, Polar/Orthogonal Surveying, Computer Data Processing, and Automated Plotting, D. Sharni	"
Large Scale Photogrammetric Numerical Mapping G. Simonsson	"
A New 1:5,000 Scale Map Series for Ireland, M. C. Walsh	"
Experience with the Application of an Interactive Computer Graphics System in Cartography, C. Hoinkes	"
Topographical Structure for Exchange of Digital Planimetric Data, F. Doyle	"

SECTION V SPECIAL APPLICATIONS OF PHOTOGRAMMETRY

Analyzing the Accuracy Obtained by Analytical Photogrammetry for Controlling the Construction Specifications for A Large Building, L. Pressense	ISP - /72
A Photogrammetric Survey of Some Monuments in Iraq, C. Sena	"

The Use of Terrestrial Photogrammetry in Shooting and Blasting Works in Opencast Pits, Z. Sitek

Study on Aerial Photogrammetric Methods of Investigation of Earthquake Disaster, H. Takahashi and M. Nishio

The Estimation of Fractures and Slope Stability of Rock Faces Using Analytical Photogrammetry, Dr. M. M. Allam

A Review of Close Range Engineering Photogrammetry, K. B. Atkinson

Up-Dating A Land Registry Plan Using Aerial Photographs, H. Desportes

On the Accuracy of Aerophotogrammetric Open-Pit Surveying, K. Dressler

On the Possibilities of Using Aerial Photographs in the Planning of the Recreational Use of Waterways and Water Conservation, V. Lappalainen

Aerial Colour Photographs Help Compile the Utilization Plan of A Recreation Area, A. Reinhold and M. Succow

Computer Optimization of Cut and Fill from Digital Randomly Distributed, Definition of Topography and Subsurfaces, R. Moreau

Some Practical Applications of Aerial Photography in Engineering Surveys, G. W. Ingram

A Brief Review of Some Photogrammetry Products Used in Transportation Engineering, M. H. MacLeod

Application of the Archeological Aerial Photographic Interpretation in the Archeologic Topography for Regional Survey, K. Eory and I. Szabo

Water Management Planning by the Joint Application of the Results of the Photo Interpretation and the Land Survey, I. Novatny

A Comparison of Some Methods of Slope Measurement from Large-scale Photos, H. Turner

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Photogrammetria
Vol. 32, No. 6
Feb. /77

were men who were respected in their time. Being the keepers of the Peters' and Jones' files has put forth a challenge to the integrity of those who followed after.

And now the time has come to share these treasures. They will be housed at Grosvenor Lodge, and available to all who wish to enjoy them. We will visit them from time to time.

In a Diary of Samuel Peters, dated 1846 we find a recipe for making tracing paper.

Samuel Peters was a Land Surveyor who practised in Southwestern Ontario in the mid 1800's. The notes on architecture were in a Diary dated 1872.

From: Diary of C. A. Jones, P.L.S. in London, Canada, sketched September 5, 1887. The area surveyed is Lots 21 to 25 between Carling and Dundas Streets and Ridout west to the Thames River. He colored the streets in pastel yellow, a clear pink fills in some of the lots, and the River is in blue.

In this year of 1977, Farncomb & Kirkpatrick survey crews again surveyed this area, and found Mr. Jones' measurements to be correct.



Surveyors who are in the office too long sometimes rush out compulsively, and drive something into the ground with a boulder. This is a form of self-therapy.

In the above, Bill MacLean, Ralph Smith, Gord Gracey and a confrere disguised by shades, take such a breather while attending the C.I.S. Survey Education Colloquium at Manoir du Lac deLage, Quebec.

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