

POSTER SESSIONS

Exhibition Hall 1B (Scientific Exhibition), Booths A1-A4, B1-B4, — L1-L4

Wednesday, July 16

14.00–15.30

II

A1, 14.00

M. Cunietti, Ç. Saibene, H. Yzermann (I):
A Photogrammetrical Plotter Designed
and Built for Didactical Purposes

A2, 14.10

A. Adamec, G. Ellis (AUS): "Do-it-your-
self" Upgrading of the Cambridge Com-
parator

A3, 14.20

P. Winkler (H): Equipment Photogram-
metric Data Processing

A4, 14.30

P. Zürcher (CH): Das graphische Periphe-
riegerät KERN GP1

B1, 14.40

H. Starosczyk (GDR): Topocart D and
Technocart D

B2, 14.50

K. Jeyapalan (USA): Stereoscopic Digi-
tizing Plotting and Interpreting System

B3, 15.00

W. Berner (CH): Einsatz von Applika-
tionssoftware und Peripherie-Geräten im
System KERN DSR1-GP1

B4, 15.10

E. Dorrer, J. Peipe (FRG): Digital Trans-
fer of Pass Points with the KERN PG2

C1, 14.00

J. Töppler (GDR): How Far is the Topo-
cart C from Jena Suitable for Aero-
triangulation?

C2 14.10

G. Müller (GDR): Coordimeter G: A New
Instrument for Data Acquisition on the
Basis of a Microcomputer

C3, 14.20

J. Höhle, A. Jakob (CH): Rechnerge-
stützte Direktkartierung mit dem Wild-
Aviotab TA und dem Automationszusatz
Wild Avioplot RAP

C4, 14.30

J. Höhle, F. Sprenger, R. Ludwig, A.

Thursday, July 17

14.00–15.30

I

A1, 14.00

Gerhard Würtz (GDR): New Photogram-
metric Camera Lenses from JENA

A2, 14.10

A.B. Iljin, V.G. Afremov (SU): Aerial
Cameras of TES Type Used for Topo-
graphic Surveying

A3, 14.20

H.K. Meier (FRG): Über den gegen-
wärtigen Stand aerophotogrammetrischer
Aufnahmesysteme

A4, 14.30

M. Albota (R): Aspects Regarding Aero-
spatial Remote Sensing Recording Cali-
brations

B1, 14.40

A. Zickler (GDR): MKF-6 Multispectral
Camera from JENA

F4, 14.50

G. Otrio (F): L'instrument à haute
résolution visible (HRV) du système
SPOT: un capteur adapté à la carto-
graphie spatiale.

II

B2, 14.00

K.S. Dueholm, H.S. Jepsen, C.L. Pillmore,
C.H. Schuch (DK): A Computerassisted
Photogrammetric Mapping System for
Geologic Studies

B4, 14.20

A. Adamec, G. Ellis (AUS): An Auto-
mated Data Collection; Processing and
Plotting System

C1, 14.30

E.L. Amidon (AUS): A Minicomputer
Processing System to Help Transform
Rasterscanned Map Lines into Polygon
Boundaries

C2, 14.40

H.W. Faust (FRG): Z2 Orthocomp, the

Friday, July 18

14.00–15.30

I

A1, 14.00

D. Borel (F): L'exploitation des des
données LANDSAT au CNES controle
Qualite produits elabore

A2, 14.10

O. Hofmann, M. Hofmann, D. Meißner
(FRG): Ein modulares, optoelektroni-
sches multispektrales Satellitenbildauf-
nahmesystem von MBB

A3, 14.20

R. Lorenz (NL): The ITC Survey Flight
Simulator

A4, 14.30

J.C. Trinder (AUS): Aerial Film Granu-
larity and Its Influence on Visual
Performance

II

B4, 14.00

Mr. Thonus, Ch. Vigneron (F): Le
TRASTER — un centre cartographique
autonome

C1, 14.10

A. Grimm, F.J. Heimes (FRG): The
STEKO 1818 for Analytical On-line-
photogrammetry

C2, 14.20

W. Hall (CDN): Software Systems Design
Criteria for an Analytical Stereoplotter

C3, 14.30

A. Chapuis (CH): Le Système KERN
DSR1, GP1, stéréoséstituteur analytique
et table de report automatique, une
solution modulaire basée sur la décen-
tralisation des fonctions de contrôle

C4, 14.40

P.T. Caden, M.J. Dymont, A. Guyon
(CDN): Design Considerations for a High
Accuracy Analytical Stereoplotter

D1, 14.50

H.J. Meckenstock, M. Schmidt (FRG):
Erfahrungen mit dem Standardtest für

Wednesday, July 23

14.00–15.30

I

A1, 14.00

M. Schroeder, R. Stätter, P. Lohmann, G.
Konecny (FRG): Resolution Estimations
for High Altitude Photographs by Means
of a Black/White Bar-testpattern

A2, 14.10

I.M. El Hassan (Saudi Arabia): Geo-
metric Analysis of Reconnaissance Frame
Photographie

A3, 14.20

M.M. Datta (IND): Photogrammetric
Education and Course Curriculae in
Developing Countries

A4, 14.30

G. Weill, M. Courtois (F): Conception du
Système SPOT

II

B1, 14.00

V.D. Derviz, G.A. Zotov, V.V. Eremeev,
V.K. Zlobin (SU): The System of Digital
Image Processing: A Tool for Integrated
Automation of Map Production

B2, 14.10

H. Mohl (FRG): Konzeption und Ge-
nauigkeitsleistung des neuen Programm-
systems zum Stereocord G 2

B3, 14.20

J. Höhle (CH): Aviopret APT 1: ein neues
Gerät für die Photointerpretation

III Main Topic: Digital Image Processing

C1, 14.00

H. Goßmann, P. Haberäcker (FRG):
Image Processing of HCMM — Satellite
Images for the Superposition with other
Satellite Imagery and Topographic and
Thematic Maps

C2, 14.10

F. Leberl, W. Kropatsch (A): Experi-
ments with Automated Feature Analysis

analytischen Auswertegerät Aviolyt AC1
mittels des neuen Digitalzeichentisches
Aviotab TA2

D1, 14.40

L.B. Iljin (SU): Stereomarking Instru-
ments DS1 and NT

D2, 14.50

C.H. Bedwell: Investigation of Visual
Performance in Stereo-Plotting Using
Video Technology

D3, 15.00

W. Lorch, R. Schwebel (FRG): Ein
Digitalzeichentisch für die graphische
photogrammetrische Auswertung

D4, 15.10

R. Schwebel (FRG): Das Punktüber-
tragungsgerät PM1, ein neuer Baustein im
Zeiss System für analytische Photogram-
metrie

III Main Topic: Algorithms of Aerial Triangulation

E1, 14.00

U.A. Rauhala (USA): Experimental Array
Algebra Modeling Algorithms

E2, 14.10

F. Steidler (FRG): On Solution Algo-
rithms for Large Sparse Systems of
Normal Equation in Photogrammetry

E3, 14.20

M. Kazemzadeh (CDN): Interactive
Processing of the Data of Very Large
Photogrammetric Blocks with Mini-
computer and K-Block Adjustment Pro-
gram

E4, 14.30

R. Larsson (S): Efficient Design of a
System for Simultaneous Adjustment of
Photogrammetric and Geodetic Obser-
vation and Additional Parameters

F1, 14.40

J.E. Julia (RA): A Fortran Block
Adjustment Program by Independent
Models and Least Squares Suitable for
Arbitrary Blocks and Small Computers.

F2, 14.50

D. Rosculet (R): Recursive Methods for
the Simultaneous Adjustment of Photo-
grammetric and Geodetic Observations in
Analytical Aerotriangulation.

C3, 14.50

R. Larsson (S): The Construction of a
Computerassisted Photogrammetric
System

C4, 15.00

E.J. Fien (AUS): Digitally Enhanced
Analogue Photogrammetry; the Sensible
Economic Alternative

D1, 15.10

V.D. Derviz (SU): Modelling of Photo-
grammetric Measuring Systems

D3, 14.00

P. Spata, L. Beier (GRD): Topocart-
Orthophot D with Digital Control Unit
and Cross-slope Corrector, the Universal
Differential Rectification System from
Jena

III Main Topic: Reliability of Photo- grammetric Systems

E1, 14.00

A. Grün (FRG): Internal Reliability of
Bundle Systems

E2, 14.10

L. Molnar (A): An Extended Blunder
Elimination Procedure

E3, 14.20

P. Stefanovic (NL): Pitfalls in Blunder
Detection Techniques

E4, 14.30

F. Amer (NL): Error Detection in some
Elementary Photogrammetric Procedures

F1, 14.40

W. Förstner (FRG): The Theoretical
Reliability of Photogrammetric Coordi-
nates

F2, 14.50

T. Bouloucos (NL): Error Detection and
Reliability Studies in Analytically
Formed Strips.

F3, 15.00

J. Juhl, K. Kubik (DK): Götterdämme-
rung over Least Squares Block Adjust-
ment.

IV Main Topic: Digital Mapping

G1, 14.00

Crombie: An Investigation into Means for
Improving the Management of Stereo
Image Matching in a Digital Computer

D2, 15.00

E. Seeger (FRG): Tischrechner-Unter-
stützung von Monokomparator und Ste-
reoauswertegerät

D3, 15.10

J. Klaver (CH): Practical Experiences
with the Kern PMG2 Zoom Point Trans-
fer Instrument and the Kern CPM1
Comparator Point Marker

D4, 15.20

R. Payne: The Design of the System-
house Autoplot Viewer

III Main Topic: Compensation of Sy- stematic Errors, WG3

E1, 14.00

E. Kilpelä, J. Heikkilä, K. Inkilä (SF):
Compensation of Systematic Errors in
Bundle Adjustment

E2, 14.10

S.F. El Hakim, W. Faig (CDN): The
General Bundle Adjustment Triangulation
(GEBAT) System – Theorie and Appli-
cations

E3, 14.20

M.M. Abdel Rahim (GB): The Terrestrial/
Photogrammetric (TP) Technique for the
Detection and Compensation of Systematic
Height Errors in Block Aerial
Triangulation.

E4, 14.30

K. Jacobsen (FRG): Attempt at
Obtaining the Best Possible Accuracy in
Bundle Block Adjustment

F1, 14.40

J. Kure, M.M. Radwan (NL): The Use of
Refined Auxiliary Data in Strip and
Block Adjustments

F2, 14.50

Z. Marsik (CZ): Error Propagation in the
Analytical Triangulation – Degree of the
Transformation Polynomials

IV Main Topic: Digital Mapping, WG1

Large Scale Integrated Mapping for Urban and Rural Planning Engineering, WG 3

Orthophotography and Photomapping, WG 5

G1, 14.00

Haitzmann (AUS): A Data Base Towards

C3, 14.20

M. Ehlers (FRG): Filter Techniques and
their Application in Digital Correlation

C4, 14.30

S. Braconne, F. Martin (F): Propal II et le
traitement d'images: approche metho-
dologique

D1, 14.40

I.J. Dowman, M.A. Mohammed (GB):
Photogrammetric Applications of Landsat
MSS Imagery

D2, 14.50

R. Scholz (FRG): Vereinfachte Daten-
verarbeitungsverfahren zur Auswertung
multispektraler Satellitenbilder

D3, 15.00

R. Jeansoulin (F): Influence des para-
metres physiques de prise de vue dans la
correlation automatique d'images

E1, 14.10

N. Poppstone: Application of Program
Transformation Techniques to Visual
Processing

E2, 14.20

D.G. Falconer: Digital Micro-Stereo-
Photogrammetry

IV Main Topics: Revision and Accuracy of Topographic Maps WG 2

Large Scale Integrated Mapping for Urban and Rural Planning Engineering, WG 3

F1, 14.00

Hronda (CZ): Integrated Mapping for
Urban planning in the Scale of the 1:500

F2, 14.10

Marin: The Use of Multi Targetting
Techniques in Cadastral Data Bases and
Urban Mapping

F3, 14.20

Thompson (CDN): Application for Dense
DEM's (Digital Elevation Models) to Civil
Engineering Projects

F4, 14.30

Tomasegovic (YU): Experimenteller Ein-
satz eines Optisch-Mechanischen Trassen-
suchers

G1, 14.40

Bacchus (F): L'entretien de la carte
topographique au 1:25.000 – Révision et
Réfection

F3, 15.00

T. Lucian: Block Adjustment of the Photogrammes with Single Overlap.

IV Main Topics: Mapping from Spaceborne Photographs and Non-photographic Imaging Systems, WG 4

Orthophotography and Photomapping WG 5

Integrated Resource Mapping, WG 7

F4, 14.00

E. Dennert-Möller (FRG): Praktische Erfahrungen bei der Herstellung einer Landnutzungskarte im Maßstab 1:200.000 aus LANDSAT-Bilddaten
Some Remarks on Landsat MDD Pictures

G1, 14.10

Viola (RA): Satellite Landsat-Skylab Evaluation of Selected Natural Resources of the Argentine Republic at Scales 1:125,000 and 1:250,000 of more than 1000 000 km²

G2, 14.20

Amaro (MEX): Policies and Cartographic Achievements in a Mexican Geographic Organization

G3, 14.30

Nanayakkara (CL) SRI LANKA-Maps and Plans for Regional Development

G4, 14.40

Bernhard (AUS): Influences of Reproduction Processes on the Perception of Orthophoto-details

H1, 14.50

Bompas: Dans le domaine routier utilisation des stéréo-orthophotographies au moyen de l'Ortoster

V Main Topic: CIPA Examples

J1, 14.00

Wrobel et al. (FRG): Photogrammetrische Bestandsaufnahmen als Grundlage für die Standbildanalyse und Gestaltungssatzung der Altstadt Hameln

J2, 14.10

Karpati et al.: Mit Thermogramm ergänzte photogrammetrische Baudenkmaufnahme durch ein analytisches Ver-

G2, 14.10

Tienstra (NL): Digital Large Scale Restitution and Map Compilation

G3, 14.20

Marckwardt (GDR): Connection of Digital Peripheral Devices to Stereoplotters from Jena

G4, 14.30

Murai (J): Digital Mosaic of Color Aerial Photographs

H1, 14.00

Roberts (USA): Kern Computer Aided Mapping System

H2, 14.10

de St. Riquier (CDN): Production des cartes topographiques à grande et à moyenne échelle par numérisation interactive des modèles stéréoscopiques

H3, 14.20

Schumacher (FRG): Eine Methode zur einheitlichen Speicherung und Verarbeitung geographischer Flächendaten für die Regionalplanung

V Main Topic: Calibration

I1, 14.00

Adams (ZA): The Use of Non Metric Cameras in Short Range Photogrammetry

I2, 14.10

Murai et al. (J): Analytical Orientation for Nonmetric Cameras in the Application to Terrestrial Photogrammetry

I3, 14.20

Zolfaghari (R): A Direct Method for Measurement of Coordinates of a Three-Dimensional Test Field

I4, 14.30

Müftüoğlu/Aytac (TR): Calibration of Non-metric Cameras from a Single Photograph and Pair of Photographs

J1, 14.40

Moniwa (CDN): The Concept of "Photo-Variant" Self-Calibration and its Application in Block Adjustment with Bundles

J2, 14.50

Szczepowski (PL): A Comparative

the Digitally Controlled Production of Orthophotos

G2, 14.10

Sinha (IND): On Some Aspects and Results of Rectification for Command Area Development

G3, 14.20

Allam (CDN): A Review of Data Acquisition Systems — Present and Future and their Effect on Cartographic Information Systems

G4, 14.30

Chapman (CDN): Dense Digital Elevation Models (DEM) and Some of their Inherent Problems

H1, 14.40

MacDonald: Interactive Photogrammetry as an Engineering and Planning Tool

H2, 14.50

Boursault (F): La cartographie informatisée pour une meilleure maîtrise de l'espace urbain: le système «CARINE»

H3, 15.00

Chamard (USA): Automated and Digital Mapping for Highways in the U.S.A.

V Main Topic: Industrial Photogrammetry

I1, 14.00

Wrobel (FRG): Photogrammetrische Bestimmung des Lastverhaltens von Laufkränen

I2, 14.10

Wrobel/Kruck (FRG): Ein photogrammetrisches Konzept zur Formkontrolle von Kühltürmen

I3, 14.20

Wrobel/Weise (FRG): Deformation Measurements by High-Frequency Photography During Crash Tests of Steel Concrete Plates

I4, 14.30

Oshima (J): Precise Measurement and Analysis of Metal-Membrane Tension Structures

J1, 14.40

Szczepowski (PL): The Photogrammetric

G2, 14.50

Jeyapalan (USA): Stereoscopic Digitizing Plotting and Interpreting System (S.D.P.I. System)

G3, 15.00

Radwan (NL): Digital Mono Plotting — Refinements and Tests

V Main Topic: X-Ray, Soil Mechanics

H1, 14.00

Fraser/Abdullah (NZ): A Simplified Mathematical Model for Applications of Analytical X-Ray Photogrammetry in Orthopaedics

H2, 14.10

Butler/Stowe: Computer Modeling of Cercical Spine Motions Based on Orthogonal X-Ray Measurements in vivo

H3, 14.20

Bondarev et al. (SU): Use of Roentgen Photogrammetry in Phtisiology

H4, 14.30

Kureya/Oosaki (J): Trial to Determine the Coordinates in X-Ray Stereophotography Using Several Targets

I1, 14.40

Cherny (SU): Use of Roentgen Photogrammetry in Arts

I2, 14.50

Muck/Wittmann: Photogrammetrische Deformationsmessungen an bergmännischen Verbaueinrichtungen

I3, 15.00

Petras (CZ): Anwendung der Photogrammetrie bei Erdbeben

I4, 15.10

Petras/Midriak (CZ): Anwendung der Erdbildmessung für Bodenerosionsuntersuchungen

J1, 14.00

Negut/Balanesco (R): Technical-Geological Interpretation of the Phenomena Having Occured in the Case of a Land Sliding

J2, 14.10

Florek: Application of Photogrammetric Methods for Investigations of Displacements and Deformation of Industrial

J3, 14.20
Wrobel/Kruck (FRG): Introducing Instrumental Conditions of Stereometric Cameras in Bundle Adjustments

J4, 14.30

Zolfaghari (IR): On-line Data Acquisition for Automatic Compilation of Perspectives

K1, 14.40

Gaitandjief (B): Die Photoperspektivzeichnung als Mittel für eine objektive Projektierung von Architektur- und Bauprojekten

K2, 14.50

Waldhäusl (A): Stereophotomontagen als Entscheidungshilfe für Hochbauprojekte

K3, 15.00

Jonason (S): Relief of the Spoils on the Arch of Titus. A Photogrammetric Survey

K4, 15.10

Vozikis/Jansa (A): Photographic Way of Laying out Elliptical Cupolas

L1, 14.00

Stambouloglu (GR): Relève photogrammétrique partiel du théâtre de Dionysos avec simple méthode de réduction pour l'évaluation des images non métriques

L2, 14.10

Simonkovics (H): Komplexe Aufmessung einer mittelalterlichen gotischen Kathedrale

L3, 14.20

Vojnovic/Marceta: Photogrammetrische Meßaufnahme von Skulpturen

L4, 14.30

Canella et al.: Photogrammetric Survey of the Dome of the Orthodox Baptistery of Ravenna

VII

H2, 14.00

J.A. Caylor (USA): High Altitude Reconnaissance Photography – New Applications in Natural Resources Survey and Wildland Resources Management Planning

H3, 14.10

F. Jaskolla, R. Mössmer (FRG): Anwendung von Fernerkundungsmethoden für ökologische Kartierungen auf europäischer Ebene

Measuring Arrangements Frequently Used in Close-Range Photogrammetry

J3, 15.00

Bujakiewicz et al. (PL): The Remarks on the Imaging Systems of Calibration

J4, 15.10

Papo/Perelmutter (IR): Free Net Analysis of Storage Tank Calibration

K1, 15.20

Altan (TR): A Comparison Between 11-Parameter Solution and the Bundle Method at a Photogrammetric Control Survey

VII

K3, 14.00

R.A. Ellefsen, D. Peruzzi (USA): Dimensions of Urban Features Relative to Pixel Sizes Planned for Landsat D and the Multispectral Resources Scanner

K4, 14.10

G. Kritikos, P. Reichert, P.S. Roy, V. Parthasarathi (FRG): Separability of Spectral Signatures and the Feasibility of Forest Type Classification Using Multispectral M²S Data – a Case Study

L1, 14.20

D. Bannert, G. Pöhlmann (FRG): Ein schneller Weg von der Analyse multispektraler Satellitendaten zum Druck thematischer Karten

L2, 14.30

W. Fink, K. Niemz (FRG): Eine Strategie der Rechnergestützten Landnutzungsklassifizierung

L3, 14.40

R. Hoffmann (FRG): Auswertung der Landsatabbildungen für Untersuchungen im Bereich Bodenkunde/Landnutzung an ausgewählten Beispielen in Afrika

L4, 14.50

H.-J. Dörfel (FRG): Zum Einfluß der Phänologie bei der Fernerkundung von land- und forstwirtschaftlichen Vegetationsflächen

J2, 14.50

Schöler/Bakken (GDR): The Photogrammetric Measurement of Spherical Tanks

J3, 15.00

Remetey-Fülöpp/Kadar (H): A Case Study in Hydraulics Base on DTM

J4, 15.10

Juhl/Kubik (DK): Deformation Measurements in Large Scale

K1, 14.00

Cernansky: New Method of Analytical Terrestrial Photogrammetry in Rickfill Dams

K2, 14.10

Cotovanu (R): Photogrammetry in Establishing Dry Dock Closing Gate Deformation

K3, 14.20

Cooper/Shorties: Analytical Photogrammetry Applied to the Measurement of Large Structures

K4, 14.30

Barbalata (R): Analytical Photogrammetric Method Used in Resistance Structure Deformations Applied by Seismic Strains

L1, 14.40

Barbalata (R): Analytical Photogrammetric Measurements Related to Hyperbolic Cooling Towers

J3, 14.20

Jacobi (DK): Photogrammetric Tracking of a Moving Particle in Running Water

J4, 14.30

Scott/Abdel-Aziz (GB): The Reflex Plotter: A Plotter without Photographs

VII

K4, 14.00

H. Gienapp (FRG): Submikroskopische Trübung des Meerwassers und deren Einfluß auf Eigenschaften seines Streulichtes

L1, 14.10

H. Helbig, H. van der Piepen (FRG): Radiometrische Korrektur und Filterung von OCS-Daten zur Verbesserung der Auswertung

L2, 14.20

P. Lohmann (FRG): Digitale Korrektur von Thermalaufnahmen von küstennahen Wasserflächen

L3, 14.30

K. Reul (FRG): Ursache und Signalübertragung von tektonischen Gefügespuren auf Fernerkundungs-Bildern

L4, 14.40

K. Reul (FRG): Determinierung und Wichtung von tektonischen Bewegungsflächen auf Fernerkundungs-Bildern

H4, 14.20

I. Hadem, G. Skramo (N): Fixed-Base Photogrammetry with Wingtip Mounted Cameras. Calibration Procedure and Forestry Application

I1, 14.30

M. Cagirici (FRG): Untersuchungen zur Klassifizierung von Baumschäden mit Farbmeßgeräten

I2, 14.10

D. Marchetti, G.J. Garcia (BR): Photo-Interpretation of the Vegetation Through Densitometry

13, 14.50

K. Herda, K.-H. John, V. Kroitzsch (GDR): Comments on the Visual Interpretation of Colour Synthesis Images

I4, 15.00

W. Tzschoppe (GDR): MSP-4C Multi-spectral Projector – A Colour Synthesis Instrument for the Interpretation of Multispectral Photographs



Poster Sessions