

XIV. Congress of the International  
Society for Photogrammetry  
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Commission V Non-Topographic Photogrammetry

COMMISSION REPORT 1976-1980

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Abstract

Resolutions from the XIII. Congress in Helsinki 1976.  
Composition of the Commission, its board and working groups.  
Symposia and colloquia.  
Board meetings.  
Publications.  
Cooperation with other international organisations.

Resolutions

The previous Congress in Helsinki 1976 gave the following resolutions as guide-lines for the activities of the Commission.

1. A Working Group should be formed on the topic "Analytics of Close-Range Photogrammetric Systems" to follow up on the results of the 1972-1976 Working Groups V-1 and V-2.
2. A Working Group should be established (in coordination with Commission VI) on the topic "Cost Effectiveness of Close-Range Photogrammetry." It should compare photogrammetry with other techniques of close range measurements and evaluate different photogrammetric approaches to particular problems.
3. The scope of the Working Group on "Non-Conventional Imaging Systems" should be enlarged to include hologrammetry, solid state imaging systems, underwater mapping, television-, X-ray-, scanning electron microscope systems and applications, and other close range sensors.
4. The International Committee on Architectural Photogrammetry (CIPA) should be commended on its continued progress and exemplary cooperation with all organisations concerned.
5. A Working Group on "Industrial Photogrammetry" should be formed to investigate the use of photogrammetry as a measuring technique in industry and to open new fields of application of photogrammetry.
6. A Working Group on "Biostereometrics" should be formed to encompass the application of photogrammetry to the study of living structures and processes in biomedical and non-biomedical fields such as botany, entomology, etc.

7. Commission V should survey and coordinate information about the need for materials (glass plates and special film) for close-range photogrammetry to elicit maximum interest on the part of potential suppliers.
8. Commission V should provide ways and means to avoid unnecessary duplication of effort and expenses by providing channels of communication for exchange of information. Also, the Commission should coordinate the dissemination of information on computer programs for terrestrial, close-range and micro-range photogrammetry.

#### Organization of the Commission

The Commission has been hosted by the Swedish Society for Photogrammetry and Remote Sensing during the period 1976-1980.

President: Prof. Dr. K. Torlegård	Dept. of Photogrammetry
Secretary: Mr. Ed L. Dauphin	Royal Inst. of Technology
	S-10044 Stockholm Sweden

The Commission has had the following working groups.

Working Group V-1 "Analysis of Close-Range Photogrammetry" Chairman: Prof. H.M. Karara	207 Woodshop Building Dept. of Civil Engineering University of Illinois Urbana, Illinois 61820, USA
Working Group V-2 "Cost-Effectiveness in Close- Range Photogrammetry" Chairman: Prof. Dr. J. Wapinski Secr.: Dr. Aleksandra Bujakiewicz	Inst. of Photogrammetry and Cartography Technical University Warsaw Plac Jednosci Robotniczej 00-661 Warsaw, Poland
Working Group V-3 "Non-Conventional Imaging Systems" Chairman: Dr. John W.C. Gates	Mechanical & Optical Metrology National Physical Laboratory Teddington Middlesex TW11 OLV United Kingdom
Working Group V-4 "Dissemination of Information" Chairman: Prof. John Badekas	Laboratory of Photogrammetry National Technical University Patisision 42 Athens 147, Greece
Working Group V-5 "Industrial Photogrammetry" Chairman: Prof. Dr.-Ing.K. Linkwitz	Inst. für Anwendungen der Geodäsie im Bauwesen Universität Stuttgart Keplerstr. 10 D-7000 Stuttgart 1 Federal Republic of Germany
Working Group V-6 "Biostereometrics" Chairman: Prof. R.E. Herron, PH D	Biostereometrics Laboratory Baylor College of Medicine 1333 Moursund Avenue Houston, Texas 77025, USA

The Commission has had the following Rapporteurs

Rapporteur  
"Bibliography"  
Mr. Keith Atkinson

Dept. of Photogrammetry and  
Surveying  
University College London  
Gower Street  
London WC1E 6BT, United Kingdom

Rapporteur  
"Architecture & Materials"  
Mr. M. Carbonnell

Committé International de la  
Photogrammetry Architecturale  
2, Avenue Pasteur  
F-94160 Saint Mandé, France

These eleven persons have comprised the Board of the Commission.

#### Symposia and Colloquia, Board meetings

The Commission has arranged an international symposium on "Photogrammetry for Industry" in Stockholm, Sweden, August 14-17, 1978. There were 114 active participants, 45 papers were presented to the symposium, 10 organizations showed equipment and production in the exhibition, 7 study tours were offered to the participants and a post symposium excursion to the National Land Survey in Gälve was arranged.

The Working Group V-5 "Industrial Photogrammetry" arranged a colloquium in Stuttgart, Federal Republic of Germany, October 18-19, 1979, with some 35 participants. The colloquium included a very interesting visit to the research and development division of the Daimler Benz Company.

The Working Group V-6 "Biostereometrics" organized together with the Society of Photographic Instrumentation Engineers the symposium "Human Biostereometrics" in Paris, France, July 9-13, 1978.

The Commission Board has primarily worked through correspondence. Three regular meetings has been held, two during the Stockholm Symposium and one during the Stuttgart Colloquium.

A Commission V Resolution Group has been elected by the Board. The Resolution Group has the following members: K. Atkinson, England, M. Carbonnell France, Y. Egels, France, K. Linkwitz, Federal Republic of Germany, and K. Torlegard, Sweden.

#### Publications

The proceedings from the international symposium on "Photogrammetry for Industry" have been published by the Department of Photogrammetry, Royal Institute of Technology, Stockholm, Sweden. The proceedings are Volume XXII Part V of the International Archives of Photogrammetry. They contain 45 papers, comprehensive print out of the discussions, names and addresses of participants, all on some 500 pages.

Papers published in journals and periodicals with contents within the field of Commission V are listed and summarized in the Commission V Bibliography which has been compiled by the Commission Rapporteur K. Atkinson. The Bibliography covers the time 1976-1979 and it appears in this part of the ISP Archives.

During the period since the last Congress two other publications of great interest for Commission V have appeared. The first is the Handbook of Non-Topographic Photogrammetry edited by H.M. Karara and published by American Society of Photogrammetry, Falls Church, Va, USA, 1979. The second is Developments in Close Range Photogrammetry edited by K. Atkinson and published by Applied Science Publishers Ltd., Barking, Essex, England, 1980.

The activities of the six Working Groups of Commission V are reported by their chairmen, and by the authors of the invited and presented papers appearing in this part of the ISP Archives.

Circular letters have been distributed from the Commission V to some 450 organizations and individuals.

#### Cooperation with other international organizations

The International Society for Photogrammetry (ISP) and the International Council for Monuments and Sites (ICOMOS) have an established cooperation through the International Committee for Architectural Photogrammetry (CIPA). The president of CIPA M. Carbonnell reports on the activities under separate title in this part of the ISP Archives. The ISP Commission V Secretary attended the CIPA symposium in Cracow, Poland, June 1979.

Commission V of ISP has also cooperated with the International Federation of Surveyors (FIG), Commission 6 (Engineering Surveying). The president of ISP Commission V gave the key-note address at the FIG Commission 6 Symposium on "Deformation Measurements" in Bonn, Sept. 1978. Under the auspices of the two sister Commissions there will be a conference on "Industrial and Engineering Survey" at the University College London in Sept. 1980. The President of FIG Dr. C.O. Ternryd and the President of Commission 6 of FIG Dr. J. van den Berg both took active part in the ISP Commission V Symposium in Stockholm, Sweden, August 1978.