

100 years



Centenary Celebration

July 4, 2010

Vienna University of Technology

Presentation

by Gottfried Konecny,
Leibniz University Hannover

I would like to acknowledge the inspiration received from Jörg Albertz on how to prepare a 100 year celebration presentation, which he did last year in Jena for DGPF.

I also gratefully acknowledge the use of some of his slides

Fundamentals of Photogrammetry

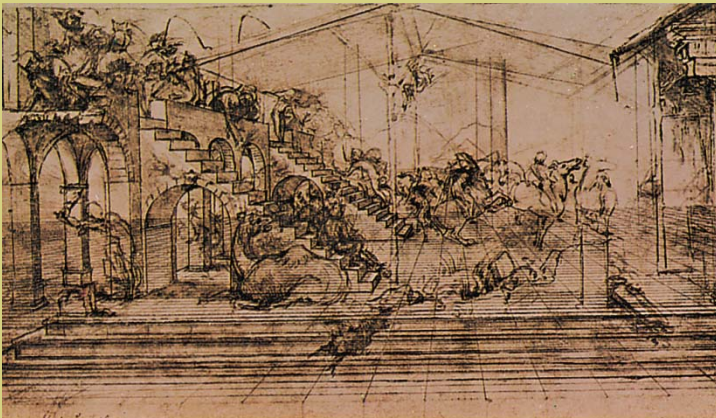
The Perspective



Self Portrait 1512



Self Portrait 1500



Leonardo da Vinci 1452-1519
Adoration of the Magi 1481



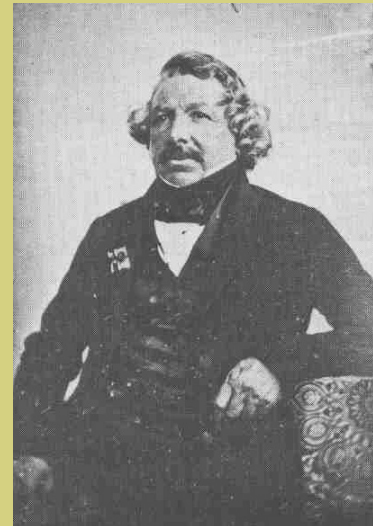
Albrecht Dürer
Instructions on the use of the Perspective 1525

Fundamentals of Photogrammetry

Photography



Joseph Nicéphore Niépce 1765-1833
invention of photography 1822



Louis Daguerre 1787-1851
practical use 1839

Kodak Film by George Eastman 1884 Additive Colour Imagery Adolf Miethe 1906

Fundamentals of Photogrammetry

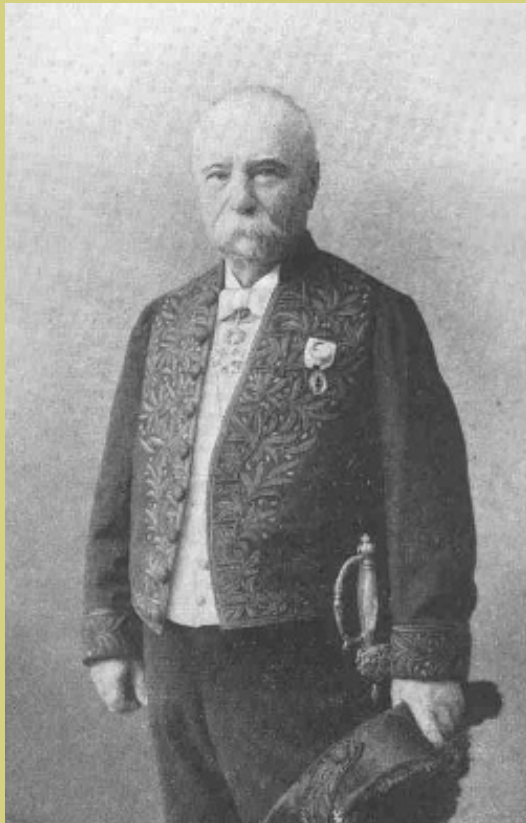
Optics



Ignazio Porro,
Torino 1801-1875



Ernst Abbe,
Jena 1840-1905/1866



Aimé Laussedat
1819/1907 Paris Mapping



Albrecht Meydenbauer
1858/1865 Architectural Documentation

Iconometry

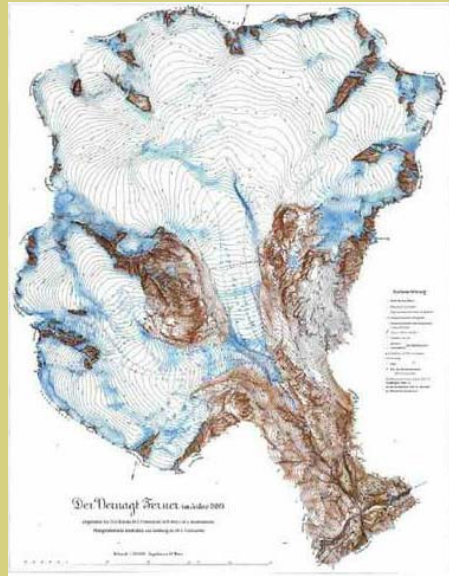
the use of photographs for the survey of objects

Photogrammetry

Terrestrial Mapping Applications



Sebastian Finsterwalder, Vernagt Glacier 1889



Plane Table Photogrammetry

Glaciers



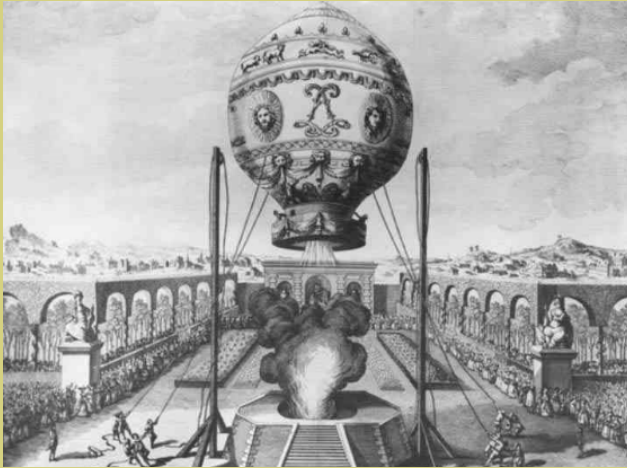
Von Orel Stereoautograph 1907/1911

Stereo Photogrammetry

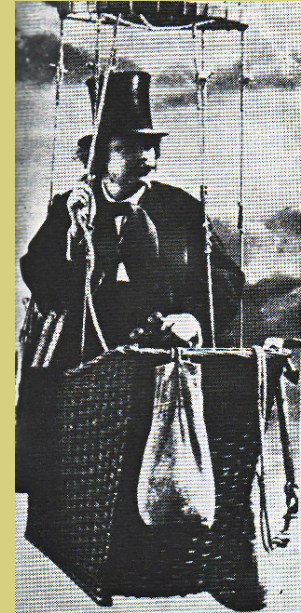
Mountain Areas

Fundamentals of Photogrammetry

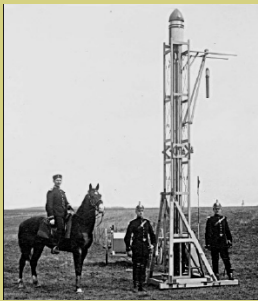
Aerial Platforms



Jacques Etienne & Joseph Michel Montgolfier 1783



Gaspard-Felix Tournachon (Nadar) balloon photography 1863



Rockets 1906



Zeppelin 1909



Aircraft 1914



Korolov

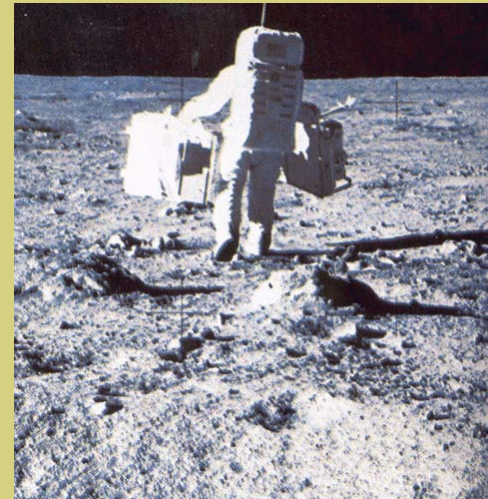


Wernher von Braun



Sputnik 1957

Space Platforms



Man on the Moon 1969



Remote Sensing Theory

Max Planck

1858-1947

1892 Professor University of Berlin

1900 Theory of Thermal Radiation
and Quantum Theory

1918 Nobel Prize for Physics

1929 Max-Planck Medal was instituted
and awarded to Max Planck and
Albert Einstein

1945 Evacuation to Göttingen from Berlin

Remote Sensing Theory

Nobel Prize for Physics



5th Solvay Conference 1927

first row, 2nd from left Max Planck. 3rd Marie Curie, 5th Albert Einstein;
third row, 3rd from right Werner Heisenberg, 6th Erwin Schrödinger;

Remote Sensing Applications



the term „Remote Sensing“ was introduced by Ms. Evelyn Pruitt of the U.S. Office of Naval Research in the 1950's

Robert N. Colwell, Forestry Professor, University of California at Berkeley 1963

Basic Matter and Energy Relationships Involved in Remote Reconnaissance

Report of Subcommittee I

Photo Interpretation Committee, American Society of Photogrammetry

CHAIRMAN, ROBERT N. COLWELL
MEMBERS, WILLIAM BYERLE, GLENN LANDIS, PHILIP LANGLEY,
ROBERT MCKEAN, STANLEY R. BENTLEY, J. N. ROBINSON, AND A. I. SOBEL

Abstract: Forth scientific, space scientists and the scientific community have used to detect and identify various objects and conditions in the optical spectrum from information collected by sensors that are remotely located with respect to the objects being investigated. Knowledge of the optical spectrum is essential for the design of sensors to be used for remote reconnaissance such as photo-thermal energy detection. It has been stated that some parts of the optical spectrum are less suitable than others for the energy transfer on such basis of the electromagnetic spectrum, which may be used for remote reconnaissance.

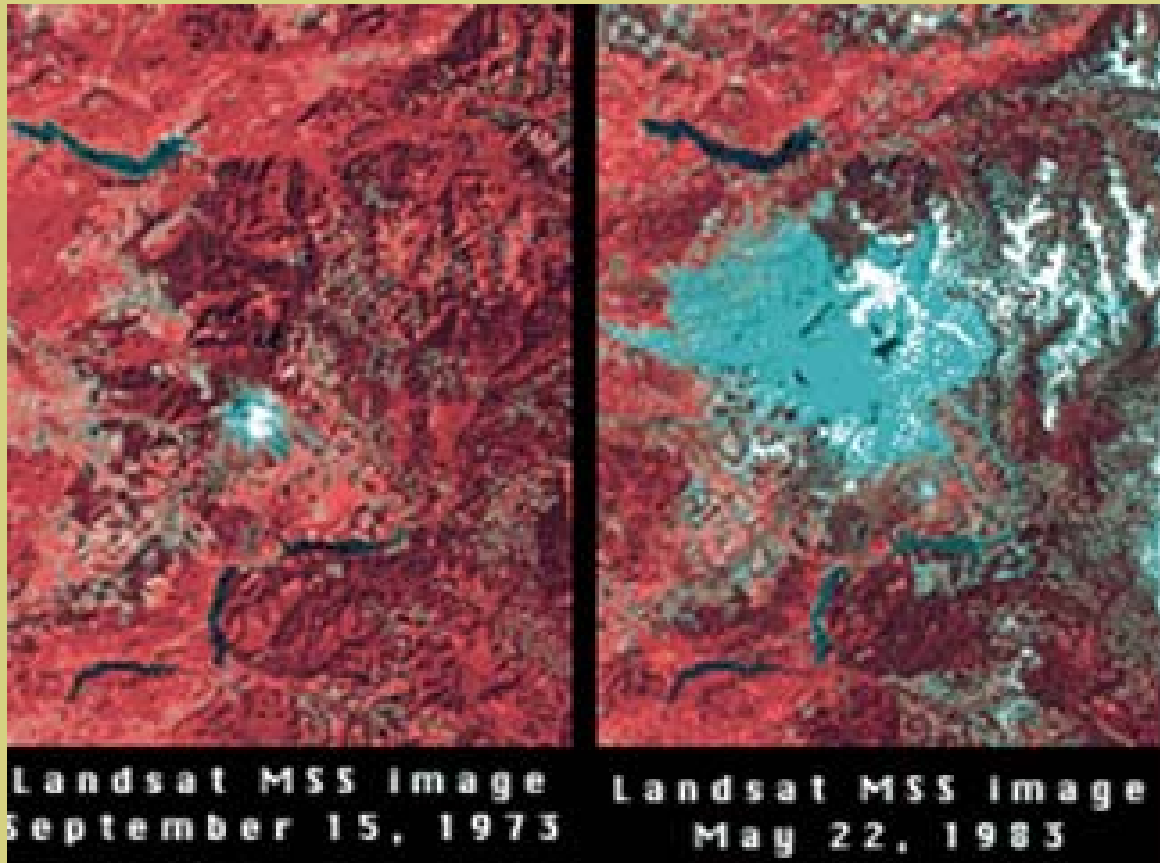
These considerations form a major part of the Subcommittee's report as it does, with the scientific community of remote sensing, to provide a basis for the development of information by remote reconnaissance. It is noted that the Subcommittee's report is based on the results of research conducted in the field of remote sensing.

The Subcommittee's report is a comprehensive review of the remote sensing system and the importance of the remote sensing process. It also reviews the basic relationships between the remote sensing process and the remote reconnaissance. The report is divided into three parts: (1) the remote sensing process, (2) the remote reconnaissance, and (3) the remote sensing process. The report is a comprehensive review of the remote sensing process, the remote reconnaissance, and the remote sensing process. It is a comprehensive review of the remote sensing process, the remote reconnaissance, and the remote sensing process.

Introduction
The field of remote reconnaissance is one of the most rapidly growing fields in the world. It is a field of science and technology that is constantly expanding its horizons. The field of remote reconnaissance is one of the most rapidly growing fields in the world. It is a field of science and technology that is constantly expanding its horizons.

By examining an array of images, we can obtain a variety of information about the physical and chemical properties of the objects being investigated. This information can be used to identify and classify objects and conditions.

As Chairman of the American Society of Photogrammetry Committee of Photo Interpretation he brought out a fundamental publication on „Basic Matter and Energy Relationships in Remote Reconnaissance“ (Phot.Eng.1963 pp.761-799)



Mt.St.Helens
Oregon, USA
1975 and 1985

Landsat in 1972 started the internationalization of Remote Sensing as a resource and environmental monitoring tool for the next 40 years

Analog Photogrammetry



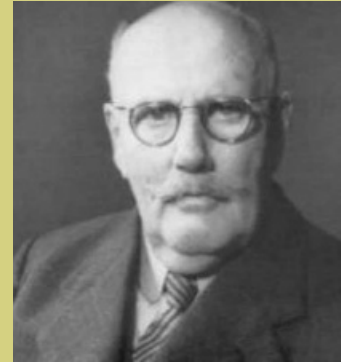
Max Gasser
1915



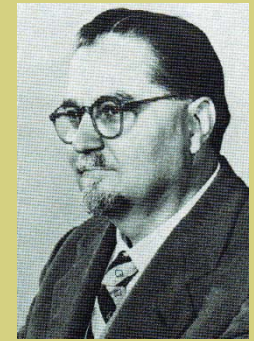
Reinhard
Hegershoff 1921



Walter
Bauersfeld 1923



Heinrich
Wild 1925



Ermengildo
Santoni, 1921

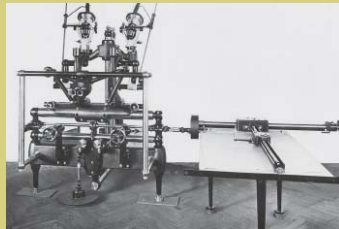
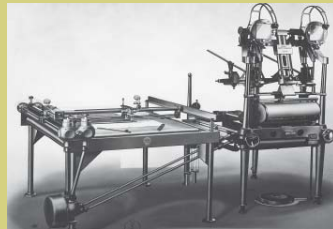


Georges Poivilliers
1922



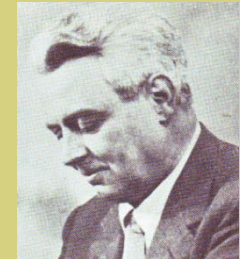
Stereoautograph

Gasser Projector

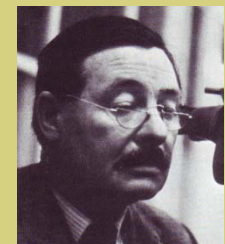


Aerocartograph Stereoplanigraph

„Those Wild Machines“,
British King George VI enquired



Umberto Nistri 1925



E.H.Thompson 1950

In 1960 Prof. Schermerhorn wrote for the 50th Anniversary of the German Society a 50 year review of the developments of Photogrammetry :

Europa sieht man in den Jahren zwischen 1921 und 1927 .. die Entwicklung mehrerer Präzisionsauswertegeräte. In der Schweiz arbeitete Dr. Heinrich Wild, in Italien Nistri und Santoni, in Frankreich Poivilliers, Predhumeau und Ferber. Es ist bemerkenswert, daß, soweit Ich nachspüren kann, keiner dieser Konstrukteure aus dem Vermessungswesen kommt, sondern daß sie entweder aus der Fliegerei oder als Ingenieure und Physiker zur Luftbildmessung gestoßen sind.

„In Europe we see between 1921 and 1927 the development of many precision plotters , (quoting Wild, Nistri , Santoni, Poivilliers, Predhumeau and Ferber).

As far as I find, none of these designers were survey specialists. They either came to photogrammetry from aviation or as engineers and physicists“

Schermerhorn' s English Abstract 1960

“The future role of (European) photogrammetry will depend on whether the great designers and pioneers of photogrammetry , personalities such as Geheimrat Finsterwalder, Hegershoff, Bauersfeld, Von Gruber, Santoni, Nistri, Poivilliers, will find successors .”

Obviously, they have, with other technologies

Analytical Photogrammetry



Sebastian Finsterwalder, Munich solved the spatial orientation of two overlapping balloon images over Gars am Inn in 1899. He made a point by point intersection of terrain points and constructed a map . The period between imagery and the finished map was 3 years.



Earl Church, Syracuse N.Y. developed computational schemes for Space Resection and Space Intersection in 1934

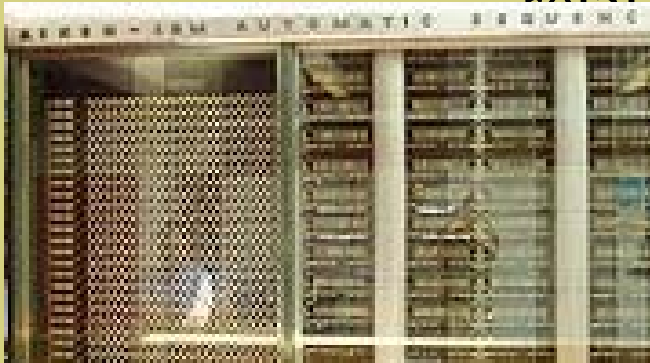


Konrad Zuse

It needed the invention of the digital computer so that analytical methods could become operational.

Konrad Zuse developed such a computer in 1942 in Germany, as Aiken did in the USA in 1944. The progress in analytical applications of photogrammetry was directly related to the availability of powerful computers

This has applied until the present day in digital photogrammetry

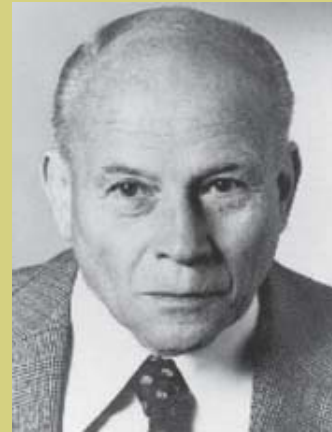


The Mark I Computer by Aiken 1944



Karl Rinner 1957

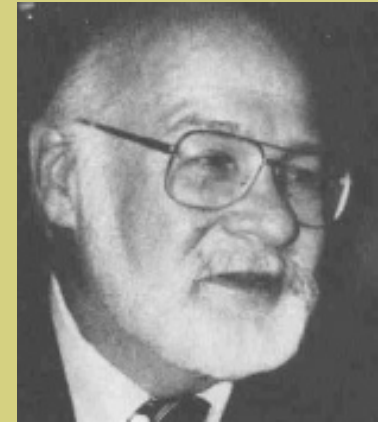
This is why Rinner preferred theoretical work including a projective solution



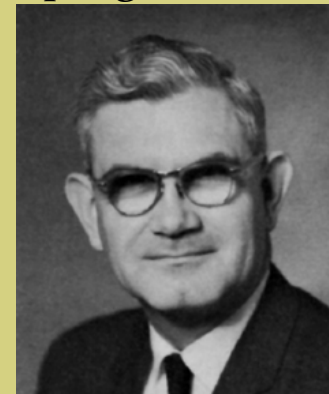
Helmut Schmid 1954
Least Squares Solution Approach

the big bundle adjustment programs originated first in the US government, where large computers were freely available

IBM even launched Digital photogrammetry

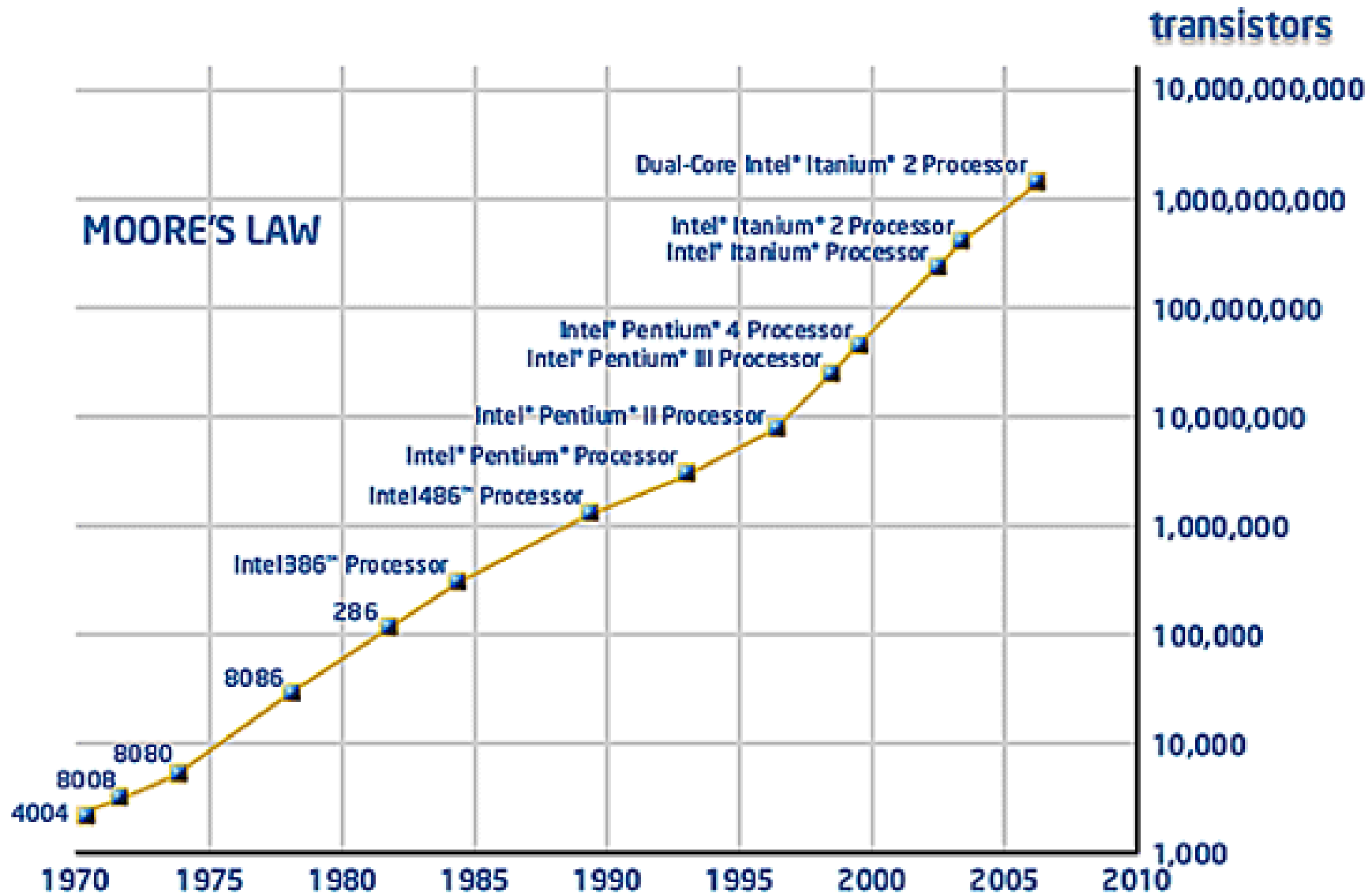


Duane Brown
Statistical

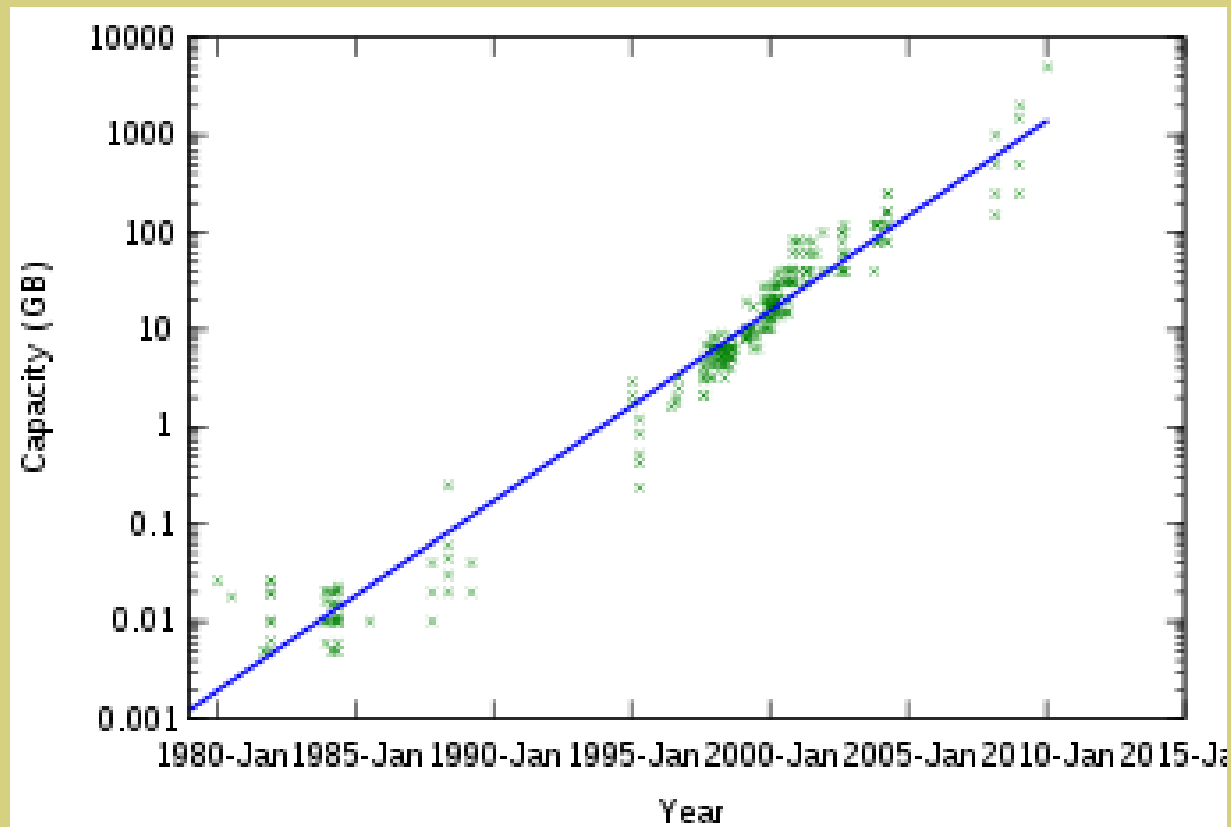


John Sharp, IBM 1964

Exponential Growth in Processor Capacity



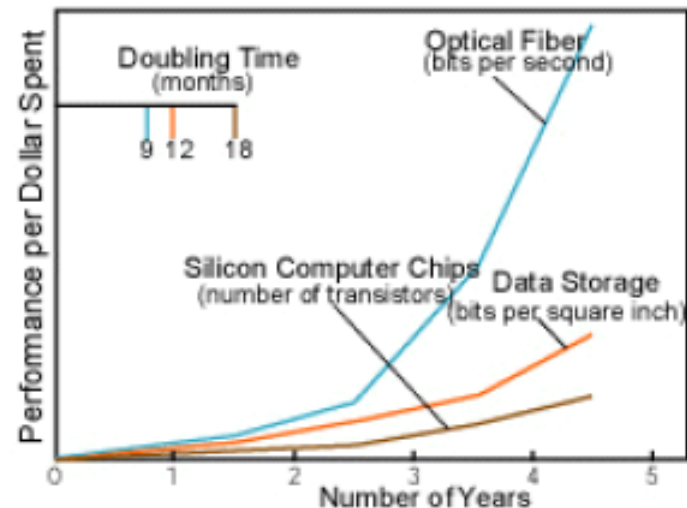
Exponential Growth of CPU Capacity



Exponential Growth in Network Performance

Network exponentials

- Network vs. computer performance
 - computer speed doubles every 18 months
 - network speed doubles every 9 months
 - difference: order of magnitude per 5 years
- 1986 to 2000
 - computers: x 500
 - networks: x 340,000;
factor 1000
- 2001 to 2010
 - computers: x 60
 - networks: x 4000;
factor: 100



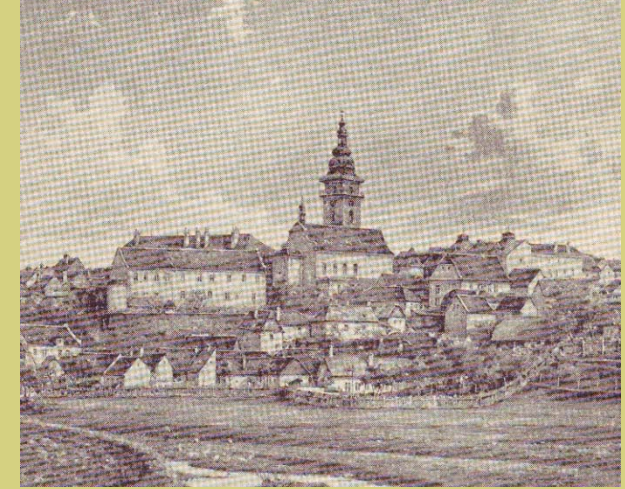
Moore's Law vs. storage improvements vs. optical improvements. Graph from **Scientific American** (2001) by Cleo Vilett, source Vined Khoslan, Kleiner, Caufield and Perkins

Based on a foundation of continuous progress in developments of computers, the tools for photogrammetry of the future are ready and they will continuously be improved.

There should therefore be no danger of extinction of photogrammetry and remote sensing, if we develop improved models and use the technology appropriately.

Eduard Dolezal, the Founder of ISPRS, had this attitude from the start, and he passed it on to us.

Eduard Dolezal's Origins



Habsburg Monarchy of the Austro-Hungarian Empire
Budwitz

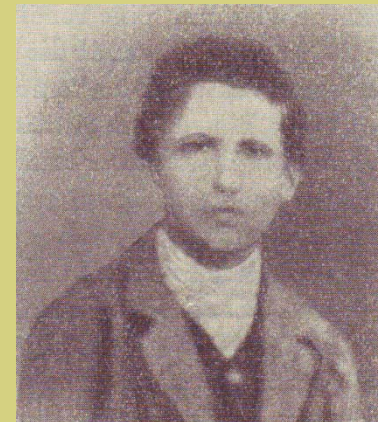
Emperor Franz Joseph I
in the Empire only 20% of the population spoke German
as their mother language and only 20% spoke Hungarian

Birthplace: Mährisch

(Moravské Budejovice)



His father Franz was
Czech born and his
mother Eleonore was
German born

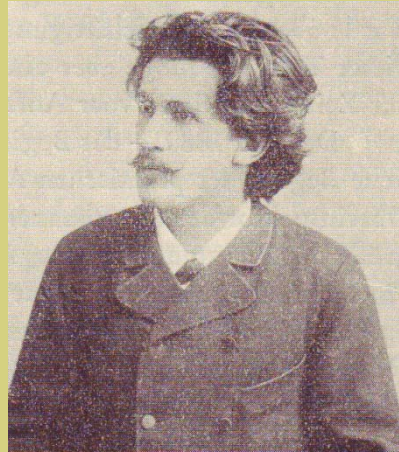


born in 1862 he went to
German school in
Mährisch Budwitz
from 1868 to 1876

Dolezal's Career



High School
Graduation
in Vienna in 1884



Professor at
Technical Academy
in Sarajevo in 1893



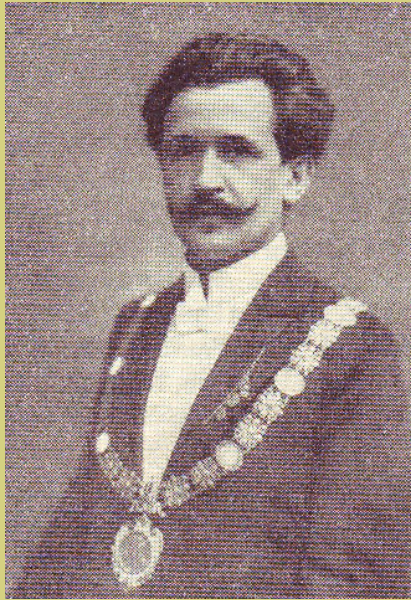
Professor at
Mining University
in Leoben in 1899



Professor at
Technical University
in Vienna in 1905



Meeting with Koppe, Jordan and
Sebastian Finsterwalder during
his travels to Germany (Braunschweig)
1897



Eduard Dolezal
Rector TU Vienna
1908-09

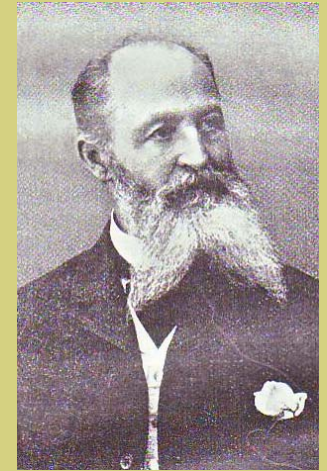
Eduard Dolezal and his contem- poraries



Anton Schell
Predecessor and
Teacher TU Vienna
+1909



Theodor Scheimpflug
visionary student and
colleague
+1911



R.J. Thiele, Moscow
+1911



Gustav Kammerer
collaborator of
Scheimpflug, +1914



Karl Fuchs
Pressburg (Bratislava)
+1916



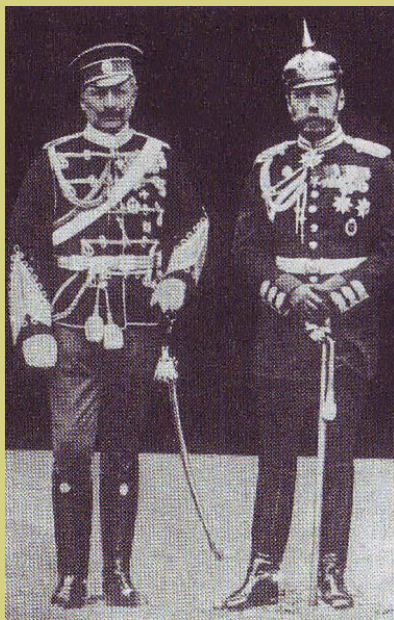
Pio Paganini
Florence
+1916



World War I was initiated by 3 cousins,
The descendants of Queen Victoria in London:
Wilhelm II of Germany
Edward VII of England and
Nicolas II of Russia

Wilhelm II of Germany needed Franz Joseph I
of Austria as ally

The multinational approach of the Austro-
Hungarian Monarchy gave way to nationalism



Ultimately World War I
destroyed 4 Empires:
- the German
- the Austro-Hungarian
- the Russian
- the Ottoman



The Austrian Society

Eduard Dolezal

1862-1955

5.3.1907 Foundation of a Society,
which after the creation of a
German Section on 7.10.1909 in Jena
became the Austrian Society

The German Society

„Founding Members of
German Section“ on 7.10.1909 in Jena
with C.Pulfrich and M.Gasser



Place of
creation

The Zeiss Photogrammetric Week October 1909 in Jena

WineHouse „Göhre“

4.7.1910 Foundation of the International Society for Photogrammetry



Dolezal was President from
1910-1926

1st ISP Congress in Vienna
1913

Eduard Dolezal and Baron Hübl were able
to give papers in the Parliament

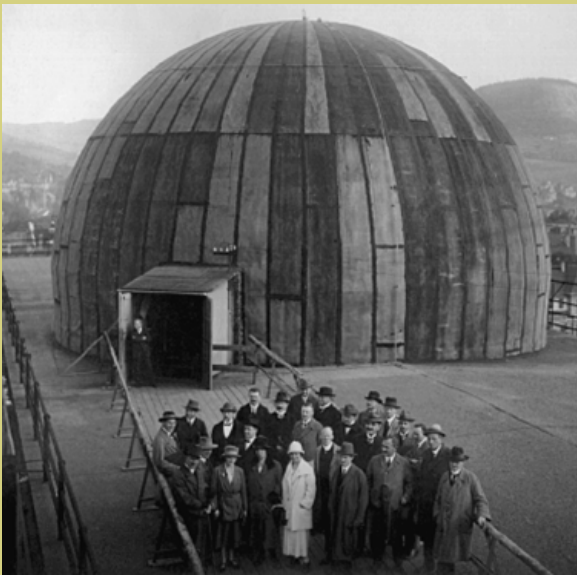




German Society Meeting 1922 in Jena with Pulfrich, Dolezal, Von Gruber and Gasser



Congress Site 1926 at Berlin Technical University



German Society Meeting 1925 in Jena

In 1922 in Jena first contacts between Dolezal and the German Society were made for planning the next Congress, which was originally supposed to have taken place in 1917.

In 1925 the decision was made to host the 2nd Congress in Berlin

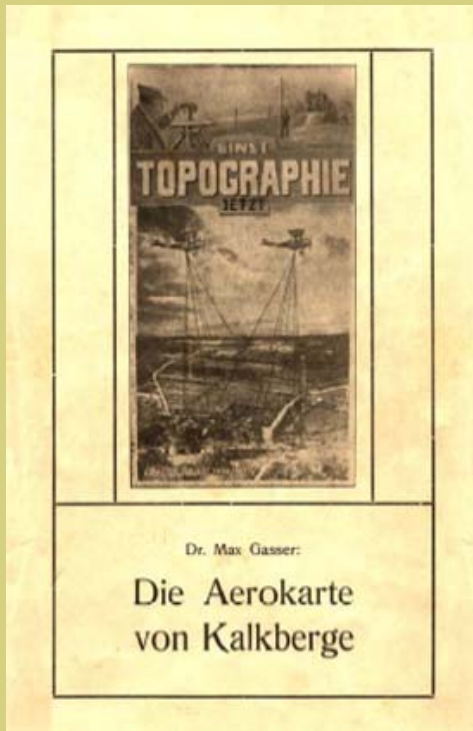
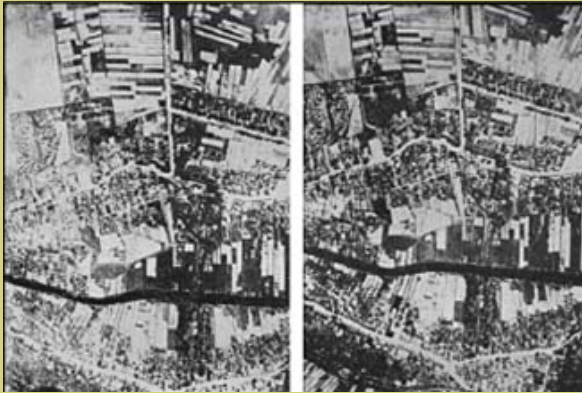


The 2nd Congress 1926 in Berlin

The Congress was held at the
Technical University in Berlin-Charlottenburg
with Prof. Otto Eggert as host
and President 1926-1930
Dolezal became Honorary President

during the Congress Exhibit
Carl Pulfrich of Carl Zeiss
showed his Planigraph





Widmung.

Denjenigen Hochschulgeodäten gewidmet, die
 durch Empfehlung Anderer
 zur Unterdrückung Anderer
 für Firmeninteressen
 frei von jedem Forschungstrieb
 von staatlichen Gehältern
 leben.

Dr. Gasser.
 1907 bis 1920 Dozent für Aero-Geodäsie
 und Photogrammetrie an der Technischen
 Hochschule zu Darmstadt.

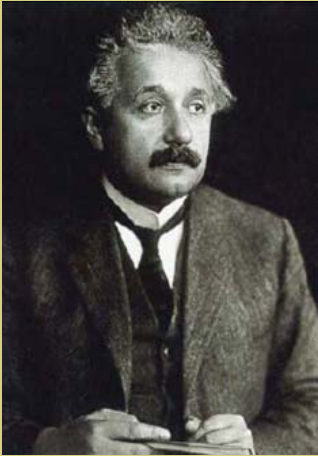
Max Gasser invented the Gasser Projector (Multiplex) in 1915, for which he obtained a war patent.

1925 the Zeiss Company made the Stereoplanigraph

Gasser made a restitution of two stereo images taken from the Zeppelin over Kalkberge.

He published a book and dedicated it to those

„University Geodesists, who by recommendation of others, for oppression of others, for company interests, free from research motivation, live from salaries of the Government“



Sachverständigen-Gutachten zum Prozess Inag contra Optikon

So kompliziert die Apparate sind, auf welche sich der vorliegende Rechtsstreit bezieht, so einfach scheint mir die für die Juristen in Betracht kommende Sachlage zu sein, welche nach den materiell übereinstimmenden Angaben beider Parteien wie folgt gekennzeichnet werden kann:

Vorbekannt war:

1. Die Methode, um aus einer photographischen Geländeaufnahme Ort und Orientierung des aufnehmenden Apparates zu finden, wenn die wahren Orte dreier Punkte des photographierten Geländes bekannt waren.

2. Methoden und Mittel zu Rekonstruktion der Formen des Objektes durch zentrales Projizieren der einzelnen Punkte zweier photographischer Aufnahmen, wobei die Platten abgesehen von ihrer Entfernung in diejenige relative Lage gebracht werden, welche sie bei den Aufnahmen hatten.

Gasser hat mit seinem Patent als erster eine Apparatur geschaffen, welche durch Kombination beider Methoden ermöglicht und bezweckt, Gelände-Relief-Karten aus zwei vom Flugzeug aufgenommenen Photographien herzustellen.

Er hat ferner als erster die erstmalig kombinierte Methode praktisch brauchbar gestaltet und hat mit seinem Zusatzpatent als erster die Methoden durch optische Einrichtungen verbessert, welche das gleichzeitig optische Anvisieren der Bilder entsprechender Geländepunkte durch eine Person ermöglicht.

In diesem Sinne ist das Gassersche Patent ein **Pionierpatent** und es unterliegt nach meiner Ansicht keinem Zweifel, daß die von der Beklagten hergestellten Apparate in den Schutzbereich des Klägerischen Patentes fallen. Bei dieser Sachlage erscheint ein Eingehen auf Details überflüssig.

A. Einstein

Albert Einstein, a Patent specialist from Bern, Switzerland was asked in 1923 for a judgement on Gasser's patent.

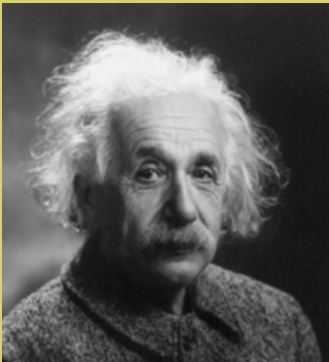
He certified, that Gasser was the first to orient two overlapping images relatively and absolutely and to use them thereafter for spatial reconstruction.

He considered Gasser's work a Pioneer Patent.

When Gasser addressed a letter to him in 1948, after he apparently had had no success with the authorities,

Einstein answered, quoting the German Poet Schiller:

„Justice is a myth, which only exists in the drama, and this is so all over the world, as self interest takes priority“



den 1. März 1948

Dr. Max Gasser
Politikerstr. 7
München-Pasing
Bayern, Deutschland

Sehr geehrter Herr Gasser:

Ich erhielt Ihren Brief vom 4. Februar. Es war gut, dass Sie die Photo-Copie beilagten, sonst hätte ich mich an keine frühere Äußerung in Ihrer Angelegenheit nicht mehr erinnert. Sie müssen sich trösten mit Schiller's Worten: "Und Gerechtigkeit ist nur auf der Bühne". Jedenfalls ist sie nirgend, wo die Politiker und Juristen den Gang der Dinge verfolgen. An den Illusionen, die Sie über die geschichtliche Moral des Auslandes haben, sehe ich, dass Sie nicht viel herumgekommen sind. Wenn das Geld in Frage kommt, ist die Bestie überall gegenwärtig. Bei meiner völligen Zurückgezogenheit fehlt es mir an Möglichkeiten, auf Ihre Priorität in der Sache aufmerksam zu machen. Es würde wohl auch wenig helfen, den jeder ist hinter seinen Spatsen her.

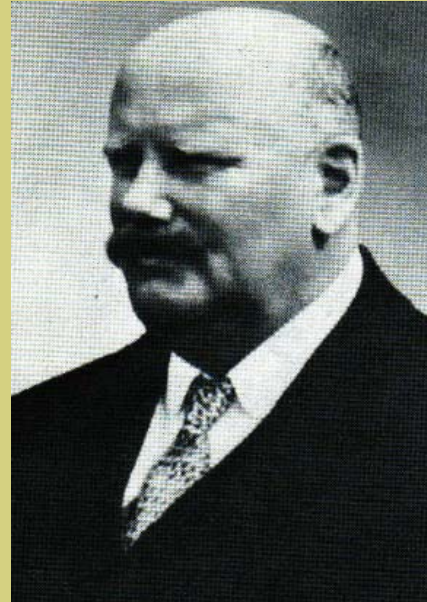
Mit vorzüglicher Hochachtung

Albert Einstein.

3rd Congress 1930 in Zürich



Fridolin Baeschlin
Geodey Professor
ETH Zürich

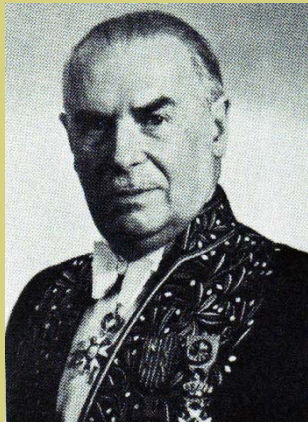


Heintich Wild, who left
Zeiss in Jena in 1923 supported
the Congress with his new company
Wild-Heerbrugg

4th ISP Congress 1934 in Paris



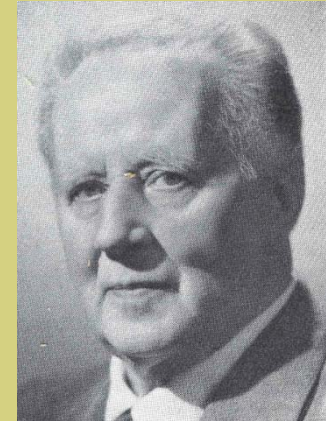
Louis Hurault
G. Perrier (President)
1930-1934



Georges Poivilliers
instrument designer

5th ISP Congress 1938 in Rome

Gino Cassinis
Professor
Politecnico di
Milano
President
1934-1938



Umberto Nistri
instrument designer



of

the Rome Congress took place at the time
the Munich treaty over Czechoslovakia with
many participants leaving early



Dunkirk after air attack



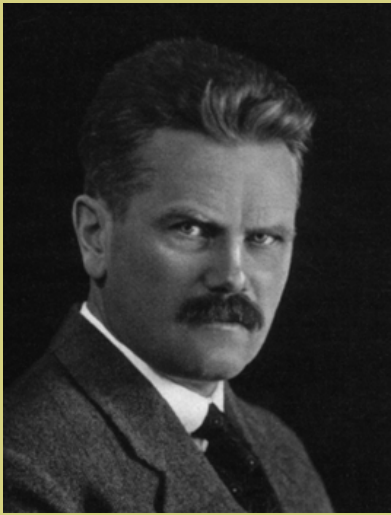
General Dwight D. Eisenhower doing some military aerial reconnaissance

World War II

World War II became a prime application for mapping. Areas, which have never been adequately mapped before were rapidly covered. Already mapped areas obtained recent multiple coverages with all war parties involved.

After World War II Germany had no aviation rights.

Otto Von Gruber and Willem Schermerhorn



Otto Von Gruber
1884 – 1942

»Professor Dr. Otto von Gruber ist eingehend zu belehren und zu verwarnen. Es ist ihm eindringlich klar zu machen, das von einem Mann in seiner Stellung eine positive und vorbildliche Haltung erwartet werden muss. Es wird ihm eröffnet, dass er mit schärfsten staatspolitischen Maßnahmen und eventueller Unterbringung in ein Konzentrationslager zu rechnen hat, falls er künftig nochmals durch seine passive Resistenz amtliche Anordnungen zu sabotieren versuchen sollte.«

Geheime Staatspolizei Weimar (Az. II A-B Nr. 2324/29)

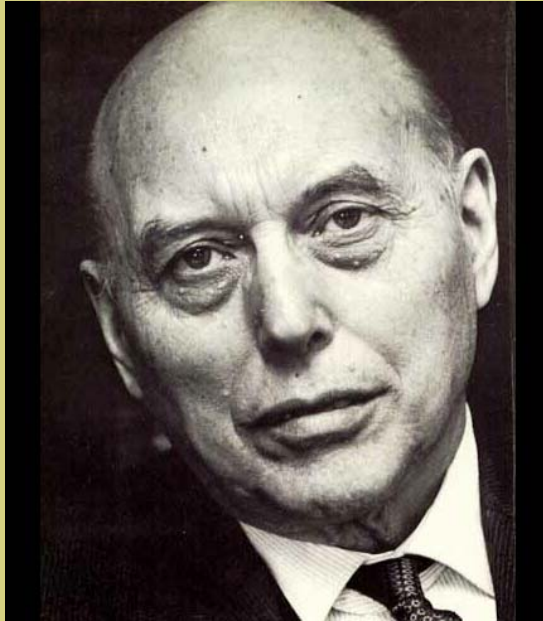
Secret Police (GESTAPO) in a note on Otto Von Gruber: „Von Gruber is to be warned that he will have to be sent to a Concentration Camp, if he does not give up his passive resistance to following orders“ (AZ II A-B No. 2324/29)



Willem Schermerhorn
1894 - 1977

Willem Schermerhorn was his colleague and friend. Schermerhorn was sent to a Concentration Camp in 1944. After being dismissed, he joined the Dutch Resistance. In 1945 he became the first Post War Prime Minister of the Netherlands

6th ISP Congress 1948 in Scheveningen, Netherlands



Willem Schermerhorn
Professor, Technical University Delft
President ISP 1938-1948

He organized the Congress following a delay of 6 years due to World War II

At that time Germany could not officially participate

but E.O. Messter of Munich, son of Oskar Messter, the inventor of the aerial survey camera of 1915 was able to represent German photogrammetrists due to his Liechtenstein citizenship.



7th ISP Congress 1952

in Washington D.C, USA



The Congress took place at the Shoreham Hotel with ISP President 1948-1952 O.S. Reading (first row, white suit)

Germany was readmitted into ISP (head of delegation was Richard Finsterwalder, the President of the German Society first to the left, beside him front row is Bertil Hallert, Sweden,)

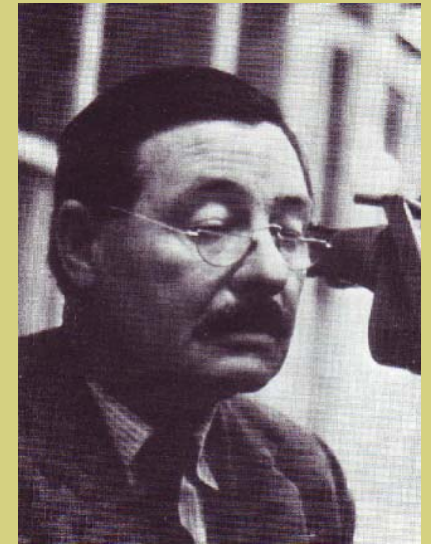
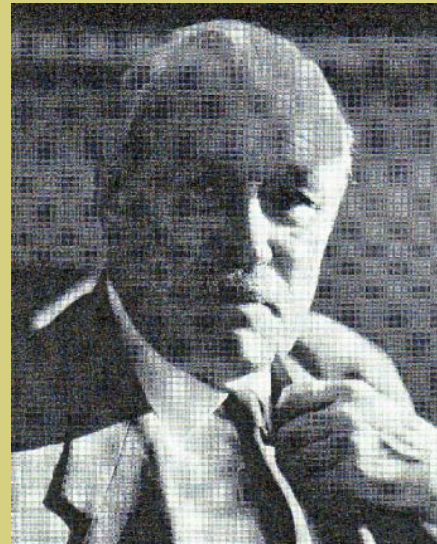
8th ISP Congress 1956 in Stockholm

President 1952-1956: P. Mogensen
Secretary General: P.O. Fagerholm
Professor of KTH, Bertil Hallert

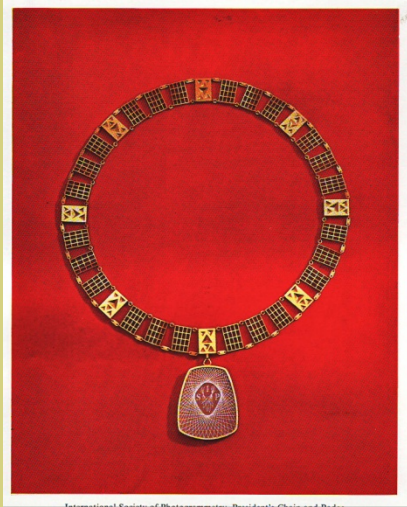


9th ISP Congress 1960 in London

President 1956-1960: General R.Ll.Brown
Brigadier Prof. E.H.Thompson
Martin Hotine Univ. College London



10th ISP Congress 1964 in Lisbon



The British Society for Photogrammetry donated a Chain of Office to ISP

President Paes Clemente (1960-1964)



was the first to wear the Chain of Office

11th ISP Congress 1968 in Lausanne



Professor Bachmann, the host at EPFL opened the exhibit with President Härry (1964-1968) (4th from left) and President Solaini (1968-1972) (3rd from left) attending

12th ISP Congress 1972

in Ottawa



Congress
Director
and President
(1972-1976)
Sam Gamble
opened the
Congress



the National Exhibit



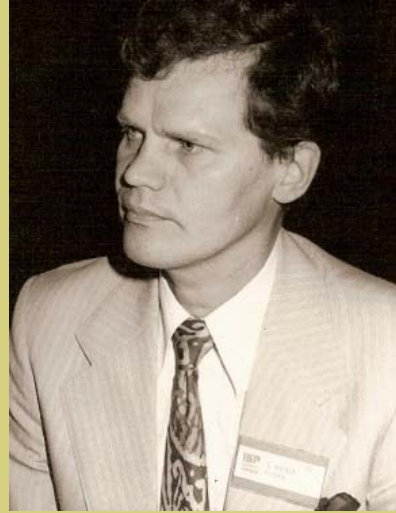
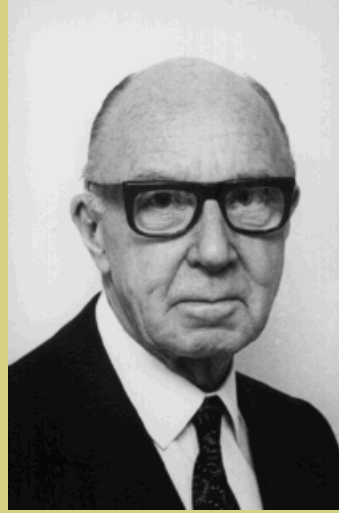
the first Landsat images (W.Fischer)



Buffalo Barbeque in Gatineau

13th ISP Congress 1976

in Helsinki



Finland donated the first ISP Flag to the Society. The designated Congress Director Halonen died before the Congress, thus the organizational task had to be shared

Prof. Halonen General Lofstrom Prof. Einari Kilpelä



Open Air Festival (Aino Savolainen) in Seurasaari; Congress Hall Techn. Univ.

14th ISPRS Congress 1980 in Hamburg



15th ISPRS Congress 1984 in Rio de Janeiro



1980 Congr. Director Konecny; President Jean Cruset

(1976-1980)

President

Fred Doyle

(1980-1984)

President

Gottfried Konecny

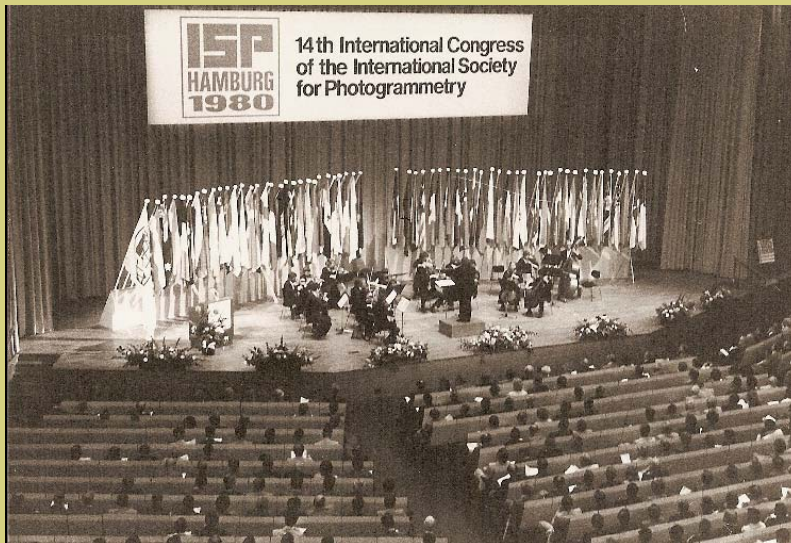
(1984-1988)

1988 Congr. Director

Shunji Murai

1984 Congr. Director

Placidino Fagundes





At the 1980 Hamburg Congress we wanted China to become a new ISP Member.

The Chinese Taipei Society had already been a member, but was not able to represent Beijing.



We changed our Statutes to admit „Countries and Regions thereof, which have an Independent Budget“, so that both societies could be Members.



Prof. Shi, Tainan; Fritz Ackermann, President DGPF; Prof. Wang Zhizhuo, Wuhan;
Mr. Li, Beijing

Maybe ISP(RS) was 10 years ahead of the times,
but our decision worked well

The Chinese Delegation at the Paris Congress 1934





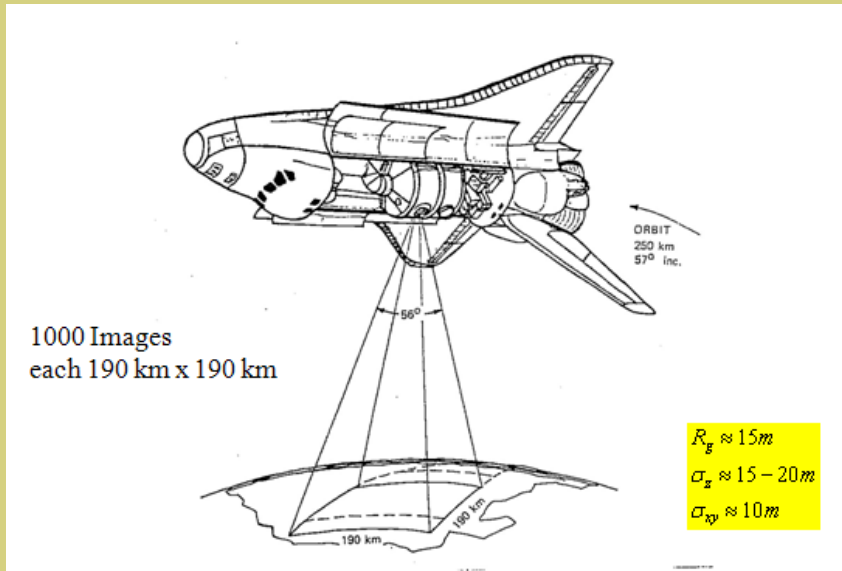
In 1983 ISPRS had 2 Members of Council, who had difficulties to travel to the Sovjet Union, when we were invited to hold a Council Meeting in Minsk
(George Zarzycki and Hans Jerie)

see below



On the other hand, Ivan Antipov, see above our host in Minsk, could not travel to West Berlin, where we had an alternate invitation.

We held both meetings.



In 1983 the German Government and ESA financed the „Metric Camera Experiment“ from Space Shuttle, networked with ISPRS individuals

10% of the earth's land mass was covered in stereo in the 9 day mission

Project Scientist: Gottfried Konecny, University Hannover

Project Engineer: Manfred Schroeder, DLR-Oberpfaffenhofen

Project Manager: Arndt Langner, DLR-Cologne

Industrial Contractor: T. Miski, ERNO, Bremen

K Meier, C. Zeiss, Oberkochen

ESA-Project Coordinator: Mike Reynolds, ESTEC, Noordwijk

ESA-Metric Camera Working Groups

Gottfried Konecny, University Hannover, Chair

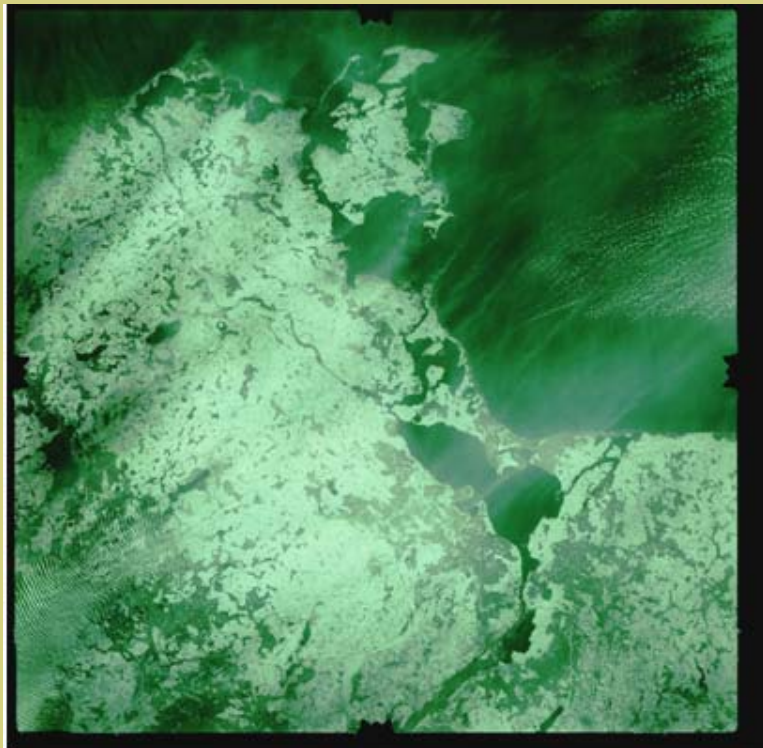
Jan Dowmann, University College, London

Guy Ducher, IGN, Paris

Giovanna Togliatti, Politecnico, Milano



the film was developed at DLR or IGN. A beautiful strip was taken over the GDR. The Government, not wanting to admit that imagery had been taken over a socialist country, did not include the images in the catalogue.



Instead, copies of these images were taken informally to our ISPRS friends in the GDR by car



the favourable response came later in 1987, when ISPRS was brought to Leipzig for a meeting, where the colleagues of the Soviet Union (Kienko and Drazhniuk) openly showed us their KFA 1000 images.

16th ISPRS Congress 1988 in Kyoto



17th ISPRS Congress 1992 in Washington



Congress
Director
Larry
Fritz
1992

Opening in the Kyoto Congress Center



President
Kennert
Torlegard
1988-1992

President
Shunji
Murai
1992-1996



Election of Honorary Members at the Kyoto Congress 1988

Wang Zhi Zhuo, Aino Savolainen, Fred Doyle

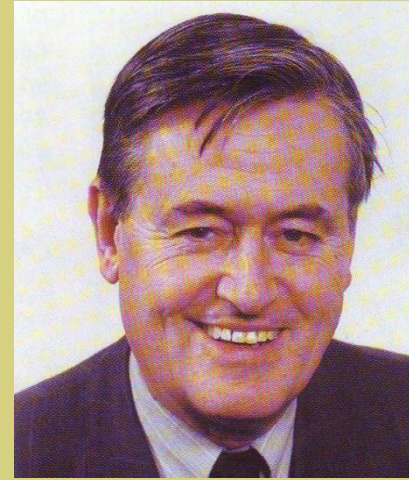


18th ISPRS Congress 1996 in Vienna



Congress Director
Karl Kraus

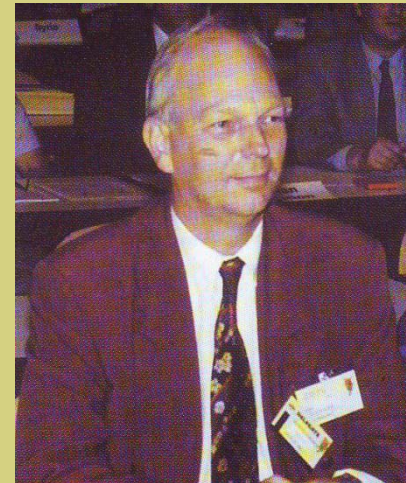
19th ISPRS Congress 2000 in Amsterdam



Congress
Director
Klaas Jan Beek



Congress
Opening
in the
Vienna
Hofburg
(Hofrat
Neumaier &
Ms. Kraus)



Program
Chair
Marteen
Molenaar

Some Memories from Vienna 1996:

Karl Kraus said in 1992:

„there are 10 reasons, why the 1996 Congress should go to Vienna again after 83 years, and one of them is Karl Kraus“.

Some of the other reasons are shown below:



- Johann Strauss Music in the Hofburg
- Dance in the Rathaus
- Party at Schloss Grafenegg

20th ISPRS Congress 2004

in Istanbul



Congress Director 2004
Orhan Altan

President (2000-2004)
John Trinder



Congress Center

Fashion Show in Dolmabahce

Gamble Award to V.P.Savinych



21st ISPRS Congress 2008 in Beijing

Congress Director 2008 Chen Jun
National Society President Yang Kai

President (2004-2008) Ian Dowman
President (2008-2012) Orhan Altan



Congress Center



Commission Presidents 2004-2008



Council 2004-2008

22nd ISPRS Congress 2012 in Melbourne



Cliff Ogleby, Congress Director



25 August – 1 September 2012
Melbourne Convention and Exhibition Centre,
Melbourne, Australia



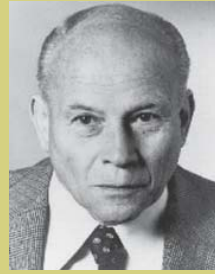
The Brock Gold Medal Winners



Bertele
1956



Schermerhorn
1960



Schmid
1968



Helava
1972



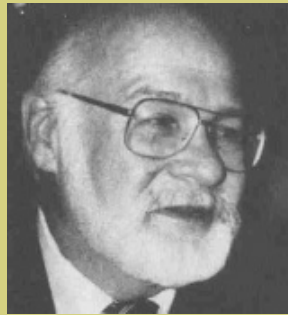
Ackermann
1976



Hobrough
1980



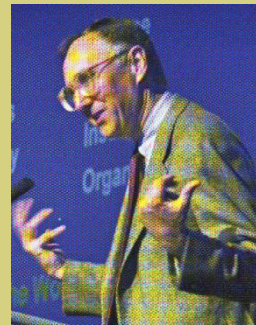
Doyle
1984



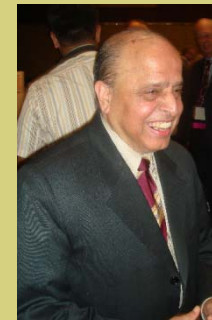
D. Brown
1988



Tjuflin
1996



Dangermond
2000



Kasturirangan
2004



Gruen
2008

photo missing of Brachet 1992

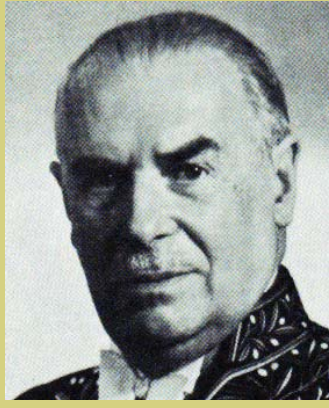
Honorary Members



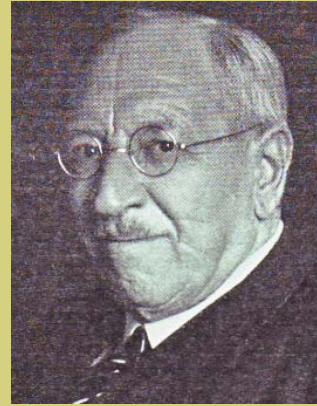
Dolezal
1926-1955



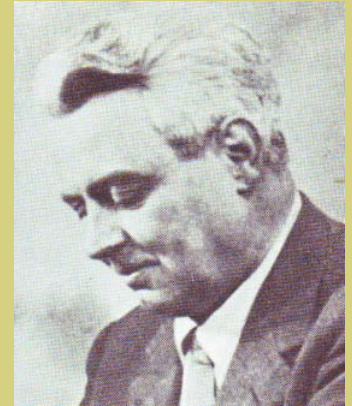
Von Orel
1938-1941



Poivilliers
1948-1968



Baeschlin
1952-1961



Nistri
1952-1962



Santoni
1952-1970



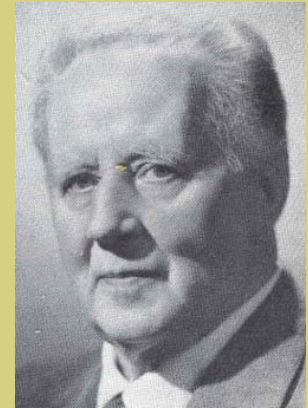
Schermerhorn
1952-1986



O.S. Reading
1952-1984

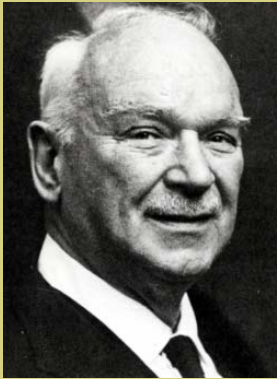


Bauersfeld
1956-1964



Cassinis
1956-1964

Honorary Members



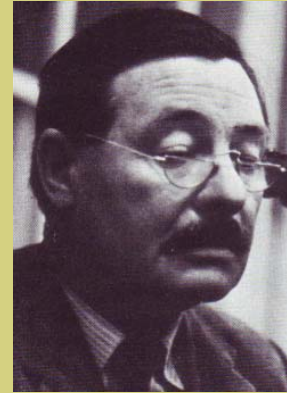
Härry
1956-1973



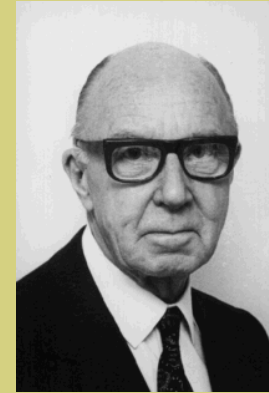
Hurault
1956-1973



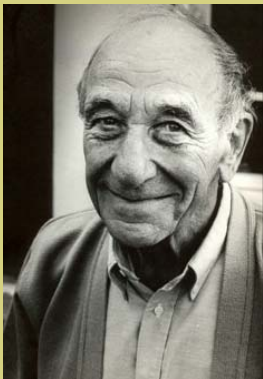
Schwidefsky
1972-1986



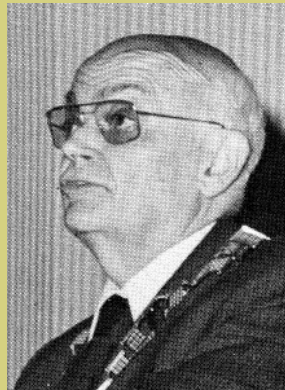
Thompson
1972-1976



Löfström
1976-1984



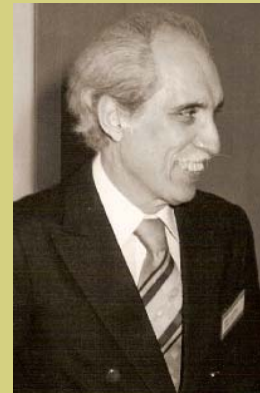
Masson d' Autume
1976-2006



Cruset
1980-1994



Solaini
1980-1989



Fagundes
1984- 1996



Wang
1988-2002

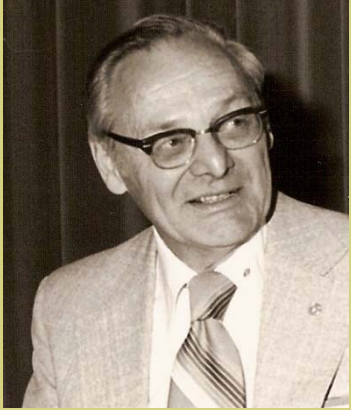
Honorary Members

missing are images of

-Mogensen, Sweden 1956-1969

-R.Ll.Brown, UK 1960-1983

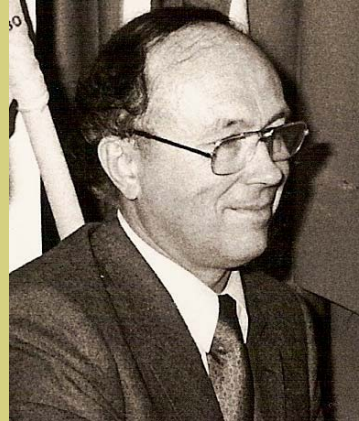
Honorary Members



Doyle 1984



Savolainen 1988



Konecny 1992



Ackermann 1996



Murai 2000



Fritz 2004



Gruen 2008



Trinder 2008



What is ISPRS?

a Strong Network

working in
Working Groups
(Banff 2005)



working in
Commission Symposia
(Tokyo 2006)



Working through their
Regional Members with
Annual Meetings

such as
Asian Association of Remote
Sensing



or
European Association of
Remote Sensing Laboratories

or also: African Association of
Remote Sensing

and: Latin American Society
of Remote Sensing



Or as NGO in cooperation with UN Agencies

e.g. UNOOSA Vienna



Or at National Meetings

e.g. Celebrations for the
100th Birthday of
Prof. Wang Zhizhuo in Wuhan



e.g. at GEOSIBIR
in Novosibirsk
Russian Federation



In Dubai with GIS Center Director Al Zaffi and Vanessa Lawrence, CEO of Ordnance Survey

Or at special Conferences

e.g. Map Middle East



In Stuttgart with Cornelia Glaesser, President of German Society

e.g. Events of the
German Society
for Photogrammetry,
Remote Sensing and
Geoinformation

This is the confirmation, that after 100 years our philosophy is still the same:

1. Photogrammetry and Remote Sensing are an independent engineering discipline providing spatial information to the society via images
2. We need continuous input from the sciences and other engineering disciplines, but the exponential growth in computer performance guarantees our growth
3. Society needs our services, which only we can provide because of our professional interest.

What are then the problems our disciplines are facing?

The problems are sociological in nature:

1. do we have political support?
2. do the laws sufficiently protect our professional interests?
3. what is the esteem scientists and engineers have in society?

If we are not sufficiently heard, what are the alternatives for us?

1. to get engaged in social, economic, political and ultimately ethical issues
2. who can give us guidance in our approach to solve problems in integrating photogrammetry and remote sensing into a greater context?

Questions we need to answer

1. what do we know? what are our limitations (Kant)
(Socrates: „I know, that I know nothing“)
2. what are our values? (religion, philosophical ideas)
3. how do we interrelate with society? (Epicure versus Marx)
4. how do we achieve
 - sustainable development (UNCED Rio 1992)?
by good governance?
 - sustainable happiness (where is paradise)?
by moral standards?
 - a sustainable world (environment, peace)?
by tolerance?

possible answers

1. We are too busy and do nothing (present Western society), when problems arise there is despair
2. We take our answers from our religious beliefs (for dogmas, there may be lack of tolerance and conflict)
3. We take advice from philosophers (they analyzed it all, but they are unable to tell us what to do)
4. So we must find our own answers

In retrospect, the answer is simple:

1. We should not be, what the Germans call a „Fachidiot“, and what Google translates as „Professional Idiot“, we need to look across the „fence“
2. We should focus our work on society' s needs, the environment, world poverty, world peace
3. We should communicate our possible contributions to those who need to know
 - our polititians
 - the professional elites
 - the public
4. Society will always criticize what you say, but not, what you do