

Universität Stuttgart

# Two perspectives on IPI: Strong pillar of DGPF – and my personal view

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I. for Photogrammetry and Geoinformatics



President of DGPF



# Contents

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- The early years
- A “Golden Age” in the 70s to 90s
- Continued success until today
  - Some personal remarks
- One more thing...

# Sources used for this talk

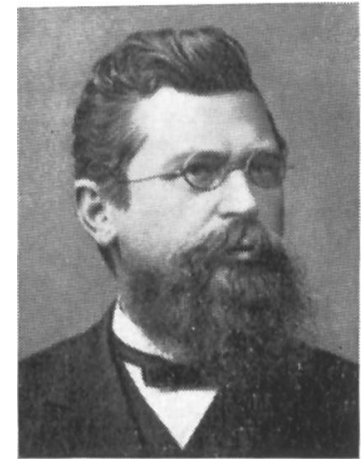
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- Excellent material found at IPI and GIH web pages
- Presentations given to celebrate 125 years of Geodesy in Hannover in 2006!
- Archives of DGPF and ISPRS
- Albertz J (2009) *100 Jahre Deutsche Gesellschaft für Photogrammetrie, Fernerkundung und Geoinformation e.V.* Photogrammetrie, Fernerkundung, Geoinformation (PFG) 2009(6): 485–560
- Personal communication

# How everything started: Hanover

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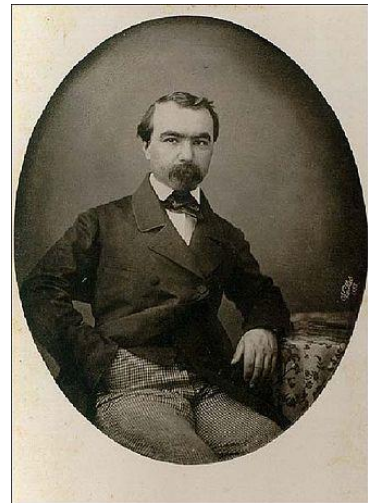
- 1831 Foundation of "Higher Trade School" with 11 staff members and 103 students by the King of Hanover. Today Leibniz University
- 1881 Wilhelm Jordan, the first geodesist who exclusively taught surveying subjects, was appointed as professor.
- 2031 200 years of Leibniz University of Hannover and 150 years of Geodesy!



1882 - 1899

# How everything started: Societies of Photogrammetry

- 1907 Foundation of the "Austrian Society for Photogrammetry" by Prof. Eduard Dolezal
- 1908 In honour of the late French pioneer Aimé Laussedat (1907 †) a photogrammetric association was established as section of the French Society for Photography.



# How everything started: Societies of Photogrammetry

- 1909 „Ferienkurs für Stereophotogrammetrie“ in Jena organized by **Carl Pulfrich** (Today Photogrammetric Week, since 1973 held in Stuttgart)



**Fig. 17:** A special type of photogrammetric image: The »Originators« of the German Society for Photogrammetry and Remote Sensing. Portrayed are 38 of the 46 participants at the first »Ferienkurs for Stereophotogrammetrie«, organized by PULFRICH in Jena between 4<sup>th</sup> and 9<sup>th</sup> of Oktober 1909. CARL PULFRICH standing as second person from left, MAX GASSER, the initiator of the foundation of the society, seventh Person from left, FRIEDRICH SCHNEIDER, first treasurer, sitting in front as second person from right.

# How everything started: Societies of Photogrammetry

- 1909 The decisive meeting to establish also a German society took place in a good wine bar at the marketplace of Jena...



Weinstube »Göhre« am Marktplatz

Donnerstag, 7. Oktober 1909

# And now? The **International** Society of Photogrammetry!

- 4.7.1910 Dolezal founds the *Internationale Gesellschaft für Photogrammetrie*, the German and Austrian Societies become members.

*The ISP(RS) Achieves also date back to this era!*



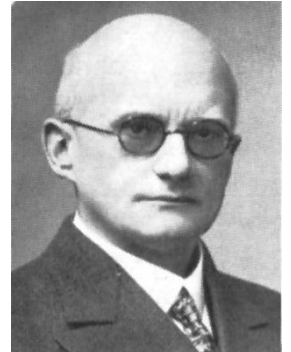
- 1913 1. Congress der *Internationalen Gesellschaft für Photogrammetrie* held in Vienna!
- 1926 2. Congress conducted at TU Berlin



# Back to Hanover

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- Around 1930 photogrammetry found acknowledgment as an independent scientific discipline.
  
- 1927 Paul Gast was appointed to Director of Geodetic Institute Hanover
  - 1927: Establishment of photogrammetric and cartographic laboratories
  - 1930: Gast published one of the first textbooks about Photogrammetry: “Vorlesungen über Photogrammetrie”
  
- Another key person in this era was Richard Finsterwalder



# After II. World War: A new Start in 1949

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- Reestablishment of *Deutsche Gesellschaft für Photogrammetrie e. V. (DGP)* for FRG in Munich, President R. Finsterwalder
  - GDR: 1960 foundation of *Gesellschaft für Photogrammetrie in der DDR*
- In Hanover two separate institutes were created:
  - The Geodetic Institute with Professor Walter Großmann as director

and

  - The **Institut für Photogrammetrie und Ingenieurvermessungen (IPI, Institute for Photogrammetry and Engineering Surveys)** with Professor Gerhard Lehmann



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## Congenial DGPF Dreamteam for more than two decades



**Abb. 86/87:** Die beiden international herausragenden deutschen Kollegen Prof. Dr.-Ing. Dr. h.c. mult. FRIEDRICH ACKERMANN (links) und Prof. Dr.-Ing. Dr. h.c. mult. GOTTFRIED KONECNY (rechts) wurden 1999 zu Ehrenmitgliedern der DGPF gewählt.

**Fig. 82:** The two internationally outstanding German colleagues Prof. Dr.-Ing. Dr. h.c. mult. FRIEDRICH ACKERMANN (left) and Prof. Dr.-Ing. Dr. h.c. mult. GOTTFRIED KONECNY (right) were elected as Honorary Members of DGPF in 1999.

## Congenial DGPF Dreamteam for more than two decades



Fritz Ackerman and Gottfried Konecny in a fun fight during the ISP congress in Helsinki in 1976 when they tried to push each other from a balancing bar with a straw bag

# Congenial DGPF Dreamteam for more than two decades

- Both served as DGP presidents
  - Gottfried Konecny: 1972 - 76
  - Fritz Ackermann: 1976 - 80 (Vice-President Gottfried Konecny)
- Initiate and foster international cooperation, networking, diplomacy...
  - Early travels to China in the late 70s, early 80s
  - High national and international reputation
- First-class researchers, innovators and managers
  - Widening scope of DFP to DGPF (Fernerkundung = Remote Sensing) in 1976
- ...
- All of those efforts paved the way for...

# ISP Congress in Hamburg 1980

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Congress director  
Prof. Dr.  
Gottfried Konecny



New: International Society for Photogrammetry **and Remote Sensing** (ISPRS)

# Gottfried Konecny's ongoing commitment to the ISPRS

- ISPRS working group chairman
  - 1972-1976: WG III/1, "Geometry of Remote Sensing Systems"
  - 1992-2000: IV/2 & IV/4 "Mapping from Space"
- ISPRS council member
  - 1976-1980: Congress Director
  - 1980-1984: Secretary General
  - 1984-1988: President
  - 1988-1992: 1<sup>st</sup> Vice President
- Later years: ISPRS Ad-hoc Committee "Knowledge Transfer"
- Countless further activities...
- Honorary member of ISPRS since 1992 (Ackermann since 1996)





# Further key Players at IPI of this Era

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- Associate Professors for Close Range Photogrammetry

- 1974-1981: Bernhard Wrobel,
  - later Professor for Photogrammetry in Darmstadt



- 1983-1986: Wilfried Wester-Ebbinghaus,
  - later Professor for Photogrammetry in Braunschweig (Brunswick)



- Senior Researcher

- 1979-1981: Hans-Peter Bähr,
  - later Professor for Photogrammetry in Karlsruhe



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---

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# 1998++: A new Generation of Professors in Hannover

- They started their ISPRS/DGPF engagement quite early already elsewhere...

## TECHNICAL COMMISSION III: THEORY AND ALGORITHMS

by **Heinrich Ebner**, President 1992-1996  
and **Christian Heipke**, Secretary 1992-1996  
and **Konrad Eder**, Secretary 1992-1996,  
Munich - Germany.



## ISPRS - Technical Commission IV 1996-2000

### Mapping and Geographic Information Systems

#### PRESIDENT

Dieter FRITSCH

📍 Institute of Photogrammetry  
University of Stuttgart  
Keplerstrasse 11  
D-70174 Stuttgart  
Germany

#### Scientific Secretary

Monika SESTER

📍 Institute of Photogrammetry  
University of Stuttgart  
Keplerstrasse 11  
D-70174 Stuttgart  
Germany



# ...and they continued their engagement ever since!

- The current advisory board of DGPF:



Prof. Dr.  
**Georg Bareth**

Beirat



Prof. Dr.-Ing.  
**Christian Heipke**

Beirat



Prof. Dr. habil.  
**Hans-Gerd Maas**

Beirat



Prof. Dr.-Ing.  
**Monika Sester**

Beirat



M.Sc.  
**Mona Goebel**

Beirat



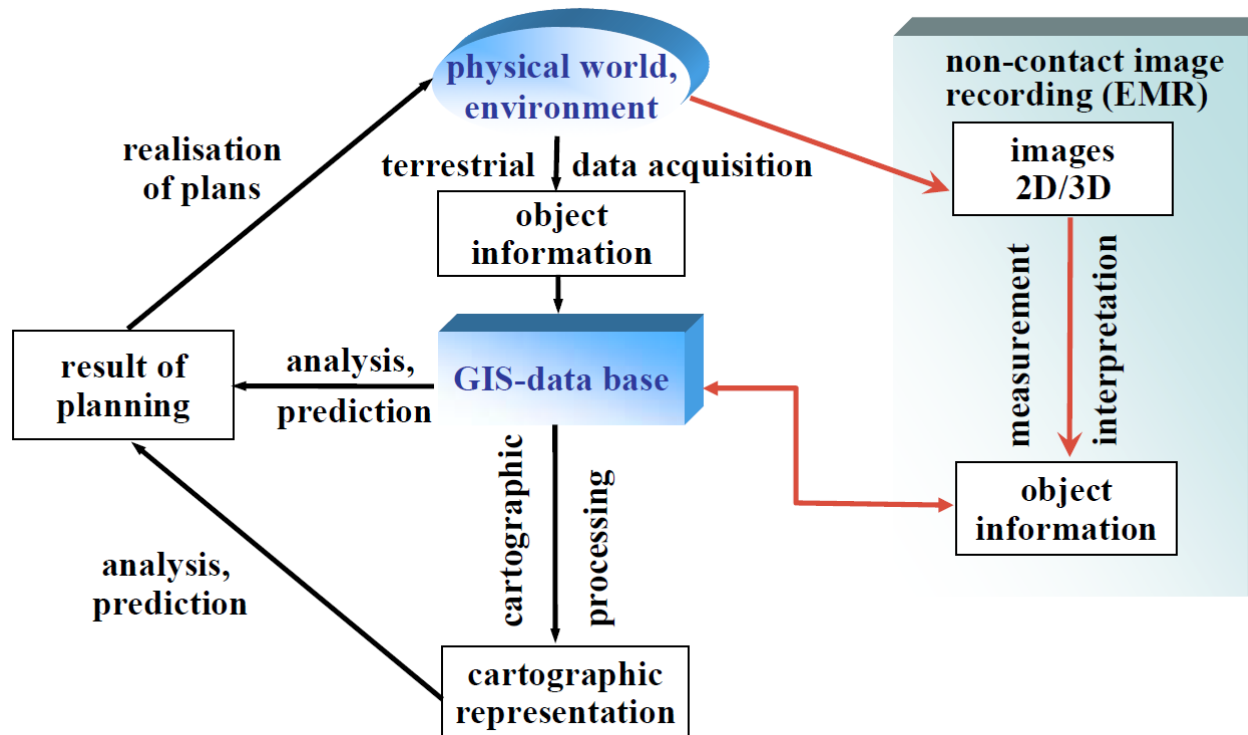
Prof. Dr.  
**Jens Bongartz**

Beirat



# Hot topics at the turn of the millennium: Methods

- Airborne Bundle Block Adjustment etc. computerized already
- However, later map production to large extent still manually

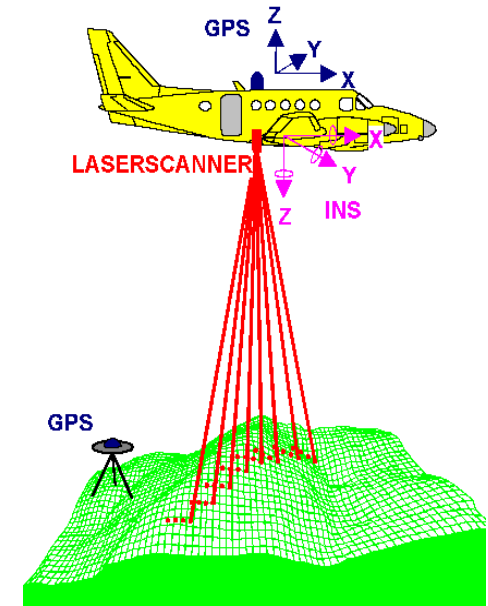


➔ Automated methods for 2D and 3D object recognition required! ➔ Semantics!

➔ Renaming of IPI to: **Institute of Photogrammetry and GeoInformation**

# Hot topics at the turn of the millennium: Sensors

- Airborne Laser Scanning for DEM production became operational



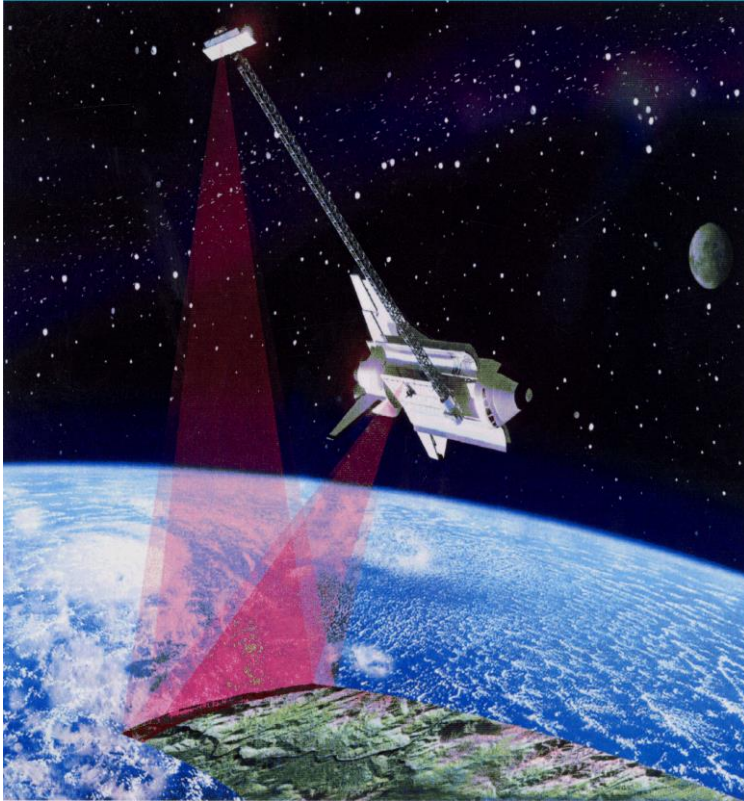
- Photogrammetry: new sensors and platforms



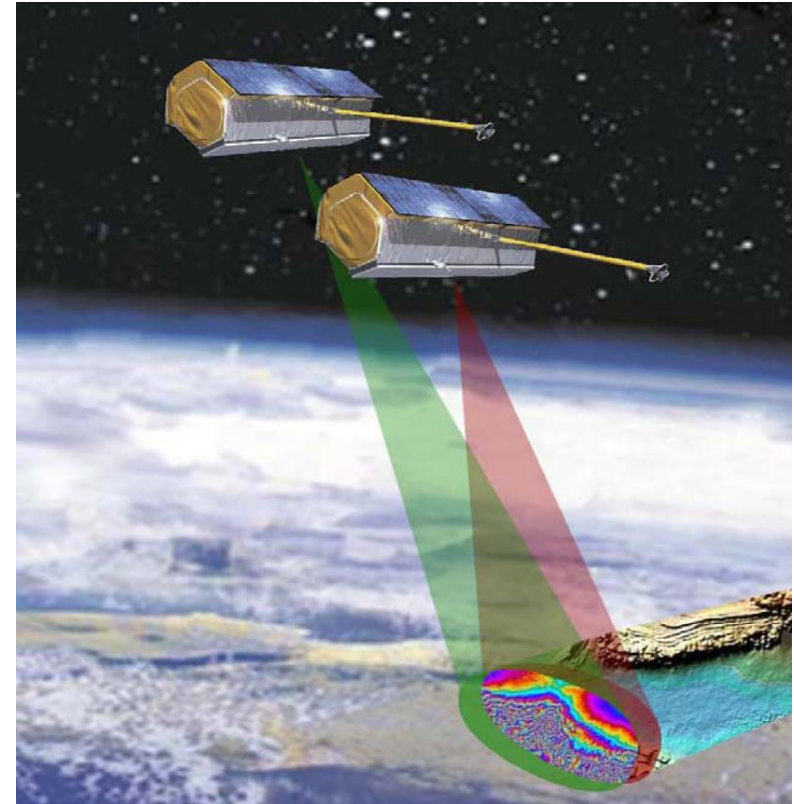
DMC II



# Remote Sensing: SAR and SAR Interferometry!





- SRTM, 2000 (USA, G)
  - Tremendous success
  - Project at IPI to check DEM quality



- TerraSAR-X, TanDEM-X
- Launch 2007 and 2010

# Assistant Professor for Radar Remote Sensing in 2005

Chair	Co-Chair	Co-Chair
<p><b>Uwe Sörgel</b></p>  <p>Institute of Photogrammetry and Geoinformation Leibniz Universität Hannover</p>	<p><b>Rudiger Gens</b></p>  <p>Alaska Satellite Facility, Geophysical Institute University of Alaska</p>	<p><b>Michele Crosetto</b></p>  <p>Institute of Geomatics Park Mediterrani de la Tecnologia, Av. del Canal Olímpic s/n,</p>

- Contributions to Working Groups in ISPRS, EARSeL, and DGPF
- Since 2017, new Professor for Radar Remote Sensing:



## Prof. Dr. Mahdi Motagh

TELEFON [+49 331 2881197](tel:+493312881197)

E-MAIL [motagh@ipi.uni-hannover.de](mailto:motagh@ipi.uni-hannover.de)

ADRESSE Nienburger Str. 1  
30167 Hannover

GEBÄUDE **3101**

RAUM **B138**

- Mahdi chairs since a while in DGPF a Working Group dealing with Geology



# 2008 Franz Rottensteiner joined IPI

Res

- Ph

- 3D

- DG

- F

- P

- IS

- O

- W

- A

- C



stensteiner

# Very active further senior IPI staff

- Dr. Manfred Wiggenhagen
  - DGPF Secretary 1998 – 2012
  
- Dr. Karsten Jacobsen
  - DGPF WG "Sensors and Platforms", 2009-2021
  - Chair and co-chair of several ISPRS WGs in Commission 1, dealing with satellite sensors **for decades**
  - Countless travels and lectures worldwide...
  - Many, many more activities – until today!



2004, Congress Istanbul

# IPI as host of Scientific Events



# Important: Socializing! - IPI evening, Melbourne 2012



# Important: Socializing! - IPI evening, Melbourne 2012



# Important: Socializing! - IPI evening, Melbourne 2012



# Important: Socializing! - IPI evening, Melbourne 2012



# Melbourne 2012 was also important for another reason!

- Christian Heipke elected as member of ISPRS Council!
  - 2012 – 2016 : Secretary General
  - 2016 – 2022 : President
  - 2022 - : Past President
- Tremendous success also for German Society DGPF!
- You guided ISPRS wisely through difficult times during COVID pandemic!
- You modernized ISPRS in so many ways!
  - E.g., support headquarter by secretary Annette Radtke





# Your Achievements are widely recognized, Christian!



Meydenbauer Medal of DGPF, 2022

Honorary Doctorate of  
University of Stuttgart, 2023



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---

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# A Proposal

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- The Board of the DGPF recently met
- It was unanimously decided to propose to the ISPRS that an award promoted by the DGPF be created under its patronage and named

**after Gottfried Konecny in his honour!**



# DGPF says “Thank You!” to entire IPI!



May the next 75 years be as excellent as the last!



# Frirz Ackermann

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- 1. April 1966 founder of Institute for Photogrammetry in Stuttgart
- Congress 1980 Program Director
- An der Universität Hannover wurde ihm 1995 der Dr.-Ing. E.h. verliehen

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- - Manfred Wiggenhagen, DGPF Sekretär 1998 - 2012
  - - Karsten Jacobsen, stellvertretender AK-Leiter "Sensoren und Plattformen", 2009-2021
  - Kassenprüfer 2014-2023
  - - Gottfried Konecny,
    - Kassenwart, 1958/59
    - Präsident, 1972-1976
    - Vizepräsident, 1976-1980
    - Ehrenmitglied seit 1999
  - - Ausrichtung der DGPF Jahrestagung: 1995