

# SURVEYING PROFESSION IN POLAND - HISTORY AND CURRENT PROBLEMS

† Kazimierz Czarnecki  
Andrzej Pachuta

## Kazimierz Czarnecki 1939 - 2006



- President of the Association of Polish Surveyors
- Dean of the Faculty of Geodesy and Cartography of the Warsaw University of Technology
- Professor of the Military University of Technology

## Kazimierz Czarnecki 1939 – 2006

- 15.05.1939 born in Przytulny nearby Makow Mazowiecki
- 1965 graduated from Warsaw University of Technology
- 1974 doctors degree from the Faculty of Geodesy and Cartography WUT
- 1977-78 assigned as UN expert to the Afghan Cartographic and Cadastral Survey Institute in Kabul
- 1980 the second doctors degree for professorship (habilitation)
- 1991 got scientific title of professor
- 1978-1993 deputy dean of Faculty of Geodesy and Cartography WUT
- 2001-2005 Director of the Institute Geodesy and Geodetic Astronomy WUT
- 2005-2006 Dean of the Faculty Geodesy and Cartography WUT

## Prof. Kazimierz Czarnecki public activity

- 1983-1989 President of Association of Polish Surveyors (SGP)
- 1989-1998 Deputy-President of this Association (SGP)
- 1985-1987 Deputy-Chairman of FIG Commission 2 „Professional Education and Literature”
- 1988-1991 Chairman of this Commission
- 1998-2006 President of Association of Polish Surveyors (SGP)
- 1983 - Member of the Committee for Geodesy of the Polish Academy of Sciences
- 1998, 2003 Chairman of Cadastral Congress (FIG) in Warsaw and Cracow

## Contents of the presentation

### „SURVEYING PROFESSION IN POLAND - HISTORY AND CURRENT PROBLEMS”

- Military/State Geographic Institute was established in Poland in 1918 and existed until 1939.
- Survey execution was a subject of private surveying companies
- Since 1945 until 1989 large state surveying companies were operating under Head Office of Geodesy, and specialised surveying companies for land consolidation under Ministry of Agriculture
- Since 1989 until ca 2000 existed temporarily the mixture of state/private companies
- Since 2000 entirely private have been executing surveying projects

## Contents (cont)

- In 1989 the act of „Surveying and Cartographic law” set up a position of Surveyor General of Poland and Head Office for Geodesy and Cartography
- Free profession in the form of ‘licensed surveyor’ has been restored
- Licensing procedure was precisely defined
- The State Commission for licensing surveyors was appointed
- Association of Polish Surveyors is responsible for the trainings and organisation of qualification procedure of licensing
- The Surveyor General formally grants licenses

## Status

- We have in Poland 35 000 surveyors!
- They are surveyors with middle and high level of education
- 7 000 works in administration
- 28 000 works on private geodetic, building, mining enterprises
- 17 000 of them have a states licence

## As the main problems of discussion in Poland appear

- Urgent need of 'Survey and Cartographic Law' change to the European level (modernization)
- Transformation of our land register to the modern cadaster
- Modernization of the surveyor's free occupation market
- Limit of the licence surveyor state grants
- Strictly limits of state administration influence on the surveyors activity
- Surveyor's licence procedure organization (grants and cancelling)
- Organization of the surveyor's system of education (high schools and universities)

## Head Office for Geodesy and Cartography (Główny Urząd Geodezji i Kartografii - GUGiK)



- Established in 1945 as Office for Country Measurements
- 1956 – new name Head Office of Geodesy and Cartography (GUGiK)
- GUGiK is a supervisor of a realization of the Polish state activity in field of geodesy and cartography
- New General Surveyor - since X.2006. – Wiesław Potrapeluk

## Association of Polish Surveyors (Stowarzyszenie Geodetów Polskich - SGP)



- The first Polish surveyors Organisation since 1919
- SGP was established in 1953
- The Organisation for all polish surveyors
- President – Kazimierz Czarniecki  
– now Krzysztof Cisek
- SGP is the greatest organisation of Polish surveyors
- SGP is a member of FIG

## Council of the Polish Surveyors Organization for geodetic employers

- Established in September 1994
- The initiative of 150 Polish geodetic businessmen
- Seat in Warsaw
- President – Wojciech Matela

## Polish Commercial Geodesy EMPLOYERS ASSOCIATION OF GEODETIC AND CARTOGRAPHIC FIRMS

- Employers Association of Geodetic and Cartographic Firms was established on 11<sup>th</sup> August 1992 during Foundation Assembly by 14 economic subjects of geodetic and cartographic branch
- Now it is 25 Companies (min 20 persons)
- Altogether 2500 employees in these offices
- President Waclaw Klocek

## POLISH ASSOCIATION FOR SPATIAL INFORMATION (PASI)



- Is a non-profit, multidisciplinary, independent organisation registered in the National Court Register, Warsaw, Poland
- 1970 – start of activity
- Till 1989 as a member of SGP
- President – prof. J. Gazzdicki

## Stowarzyszenie Kartografów Polskich Association of Polish Cartographers



- Until 1999 were scattered in different organisations and institutions
- To 1999 – part a SGP
- President - Dr Joanna Bac- Bronowicz
- Seat - Wrocław

## Zachodniopomorska Geodezyjna Izba Gospodarcza Employers Association of Surveyors on Pomorze Zachodnie

- Local Organization in North-West Poland
- 2003 – year of establishment
- Sławomir Leszko - president

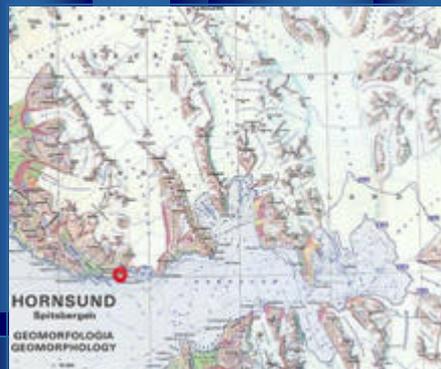
## Some activities in a frame of SGP - Polish Students Expeditions to Spitsbergen

- 1988 – the first expedition from Warsaw University of Technology (2 supervisors, 4 students) – leader A. Pachuta
- 2002 – prof. Kazimierz Czarnecki – president of the Association of Polish Surveyors was the initiator of foundation of the Club Students of Geodesy and Cartography from all Polish Universities
- 2002 – 2003 the elaborating of programme of students scientific expedition to Spitsbergen
- 2003 – the organization of an expedition (12 students from the Club with leader A. Adamek from WUT); dr Z. Kurczynski as supervisor
- 2004 – the second Expedition – leader M. Wozniak
- 2005 – the 3<sup>rd</sup> Expedition – leader J. Walo
- 2006 – the 4<sup>th</sup> Expedition – leader A. Pachuta

## Polish Students Expeditions to Spitsbergen



## Hornsund - Polish Polar Station



Main building from Polish Polar Station in Hornsund



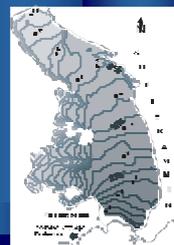
The members of expedition from 2003



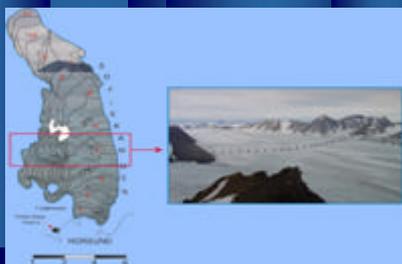
Measurements of Hans glacier in  
2005 dr Janusz Walo      2006 dr Andrzej Pachuta



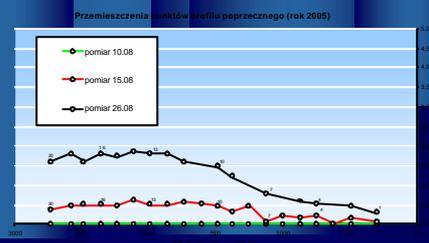
GPS measurement on Hans glacier - section



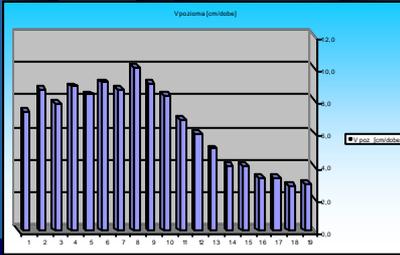
GPS measurement – cross section  
21 points  
GPS-RTK method



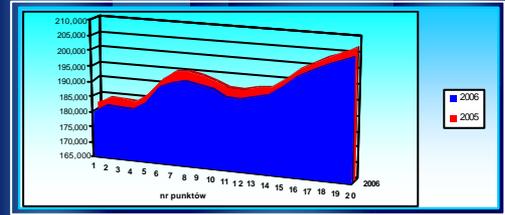
Movements of points in a cross section in 2005



Velocity of ice from the Hans glacier in vertical direction in 2005 (cm/day)



Changes of ice height in the same places between 2005 and 2006 (m) in a cross section 4



Geodynamical Network



Thank you



Thank you



Thank you

