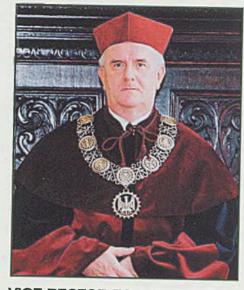




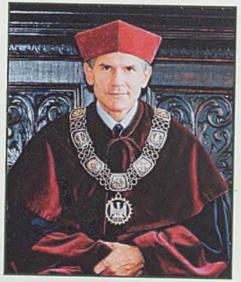
RECTOR OF THE SILESIAN UNIVERSITY OF TECHNOLOGY Professor Wojciech ZIELIŃSKI, DSc. ENG



VICE RECTOR FOR EDUCATION Professor Ryszard K. WILK, DSc. ENG



VICE RECTOR FOR ORGANIZA-TION AND DEVELOPMENT Professor Wojciech CHOLEWA, DSc. ENG



VICE RECTOR FOR RESEARCH AND **COOPERATION WITH INDUSTRY** Professor Marian DOLIPSKI, DSc. ENG

PREFACE

The Silesian University of Technology, being one of the biggest technical universities in Poland and the first founded in Silesia has successfully been pursuing its mission of education, research and development.

In view of Poland's pending accession to the European Union, our country faces new challenges and Polish higher education institutions, including our university, must be ready to respond. The most important task is to teach and coach graduates for effective performance in demanding European markets. Our University is fully prepared for this, thanks to well-qualified teaching staff, widespread contacts with foreign partners and advanced research and development works generally focused on the needs of industry. Therefore, I am convinced that studies at the Silesian University of Technology provide opportunities for successful entry into adult and professional life, whereas cooperation with our University offers good prospects of obtaining competent expertise, highly developed research works and projects facilitating economic growth.

Rector of the Silesian University of Technology

Professor Wojciech Zieliński



THE PAST AND The present

THE PAST AND THE PRESENT

ORIGIN

The Silesian Technical University based in Katowice was founded pursuant to the decree of the President of the National People's Council dated May 24 1945, following long-last-ing efforts to establish a technical university in the district of Upper Silesia undertaken since the late 1920s.

To procure staff members for the new technical university in Katowice, Professor Wladyslaw Kuczewski, entrusted with the management of the organisational works; turned to Silesia as well as to the Academy of Mining in Cracow, where technical-faculties had already been organized with the prospect of their successive transformation to an independent Technical University in Cracow.

Talks between Professor Kuczewski and the Cracow Organising Committee were concluded by the resolution to transfer the studies commenced at the four technical faculties in Cracow to Katowice, until permanent facilities for the seat of the new technical university were found in the district of Upper Silesia.

On June 21, 1945 the Town Council of Gliwice and the managing board of the Silesian Technical University signed an agreement concerning the organisation of the university campus out of several buildings and houses allotted for this purpose.

While some of the buildings were ready for an immediate use, others required major repair works. Nevertheless, the University administration began functioning on June 26 1945, and, consequently, on July 4 the same year the Rector's Office publicly advertised for university posts.

At the same time, on August 6, 1945 the entrance requirements for candidates and entrance examinations were announced for the faculties of chemistry, electrical engineering, building and mechanical engineering based in Gliwice, and the four faculties which so far had operated in Cracow were subsequently transferred to their new location in Gliwice.

LOCATION

The final decision to transfer the university seat from Katowice to Gliwice was announced in March 1946, only to confirm the already existing state of affairs.

The town of Gliwice had several advantages including building and housing resources concentrated in a relatively small area, which would enable the accommodation of teaching and administrative units, as well as the organisation of the university campus. Such a solution was consistent with the vision of creating a technical university with its own campus and facilities, which would have a major impact on the character of the whole town.

Another, even more important advantage of locating a technical university in Gliwice was the availability of the former academics of the Technical University in Lvov, who had been evacuated here after World War II.

INAUGURATION CEREMONY OF THE FIRST ACADEMIC YEAR

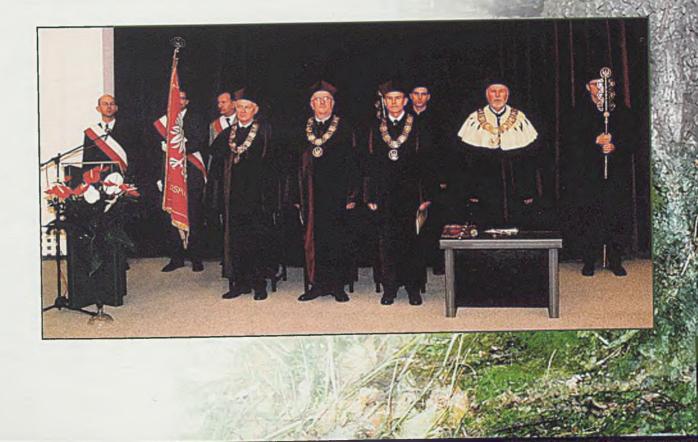
The inauguration ceremony of the first academic year was held on October 29, 1945. At that time, the University consisted of four faculties (Faculty of Chemistry, Faculty of Electrical Engineering, Faculty of Building, Faculty of Mechanical Engineering) with 54 departments, employing approximately 200 academic staff.



THE PRESENT

STRUCTURE

Today the Silesian Technical University is a self-governing state university managed by the elected bodies, including: Rector – who constitutes the supreme one-person body, and Senate- a collective body of academics. The Rector is assisted by three Vice-Rectors responsible for: Education, Research, Organization and also by the Administrative Manager.



BASIC UNITS - FACULTIES

After recent restructuring the University consists of 12 basic units-faculties:

- Faculty of Architecture
- Faculty of Automatic Control, Electronics and Computer Science
- Faculty of Civil Engineering
- Faculty of Chemistry
- Faculty of Electrical Engineering
- Faculty of Mining and Geology
- Faculty of Power and Environmental Engineering
- Faculty of Mathematics and Physics
- Faculty of Mechanical Engineering
- Faculty of Materials Science and Metallurgy
- Faculty of Organisation and Management
- Faculty of Transport

The faculties are based in Gliwice, Katowice and Zabrze.

OTHER UNITS

Other units include institutes, centres and other supporting units.

The University also includes a subsidiary Engineering Education Centre in Rybnik (running full-time as well as part-time BSc engineering courses in the study lines offered by the Faculty of Civil Engineering, Faculty of Mining and Geology, Heat Energy and Environmental Engineering and Faculty of Organisation and Management.

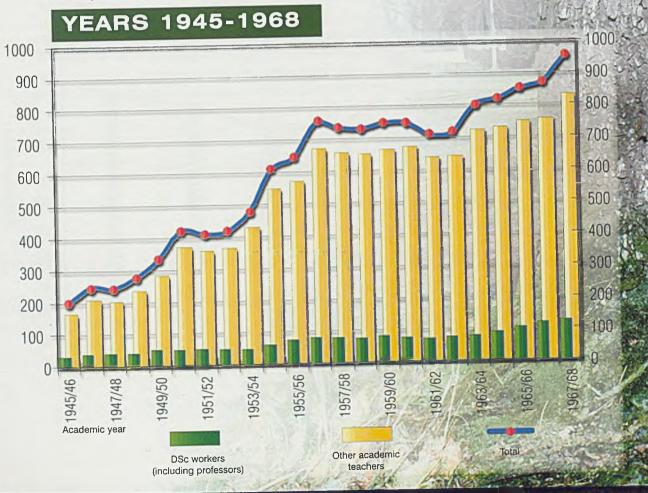
The University also incorporates the following interfaculty units :

- Central Library
- Publishers of the Silesian Technical University
- Foreign Languages Teaching Centre
- Sports Centre
- Geometry and Engineering Graphics Centre
- Research Centre for Teaching Techniques
- Career Guidance and Student Promotion Centre
- Research Centre for Teaching Techniques
- Computer Centre

THE PRESENT

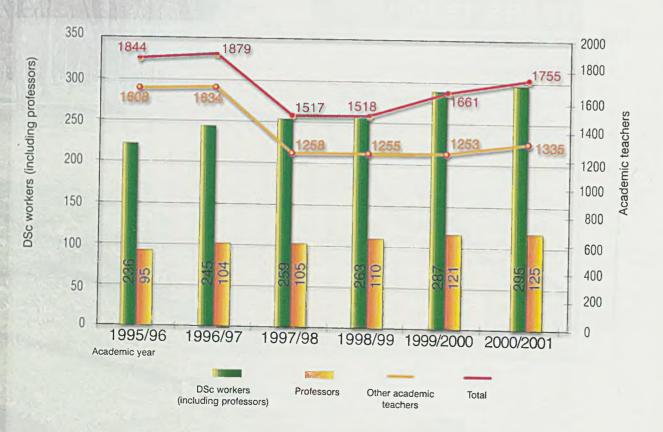
ACADEMIC STAFF

In 1945 the core of the academic staff consisted of former professors of the Technical University in Lvov. Numerous future professors of the Silesian Technical University were also former junior teaching staff members or students of the Lvov Technical University, not to mention the adopted teaching programs and curricula. Thus, such particular ties between the new technical university and the former Technical University in Lvov were to be cherished in the years to come. The increasing number of academics since the foundation of the Silesian Technical University until the year of 1968 is illustrated by the diagram below:



The excellent teaching staff was a major advantage of the newly founded Silesian Technical University, distinguishing it from other Polish universities and fully justifying its location in Gliwice.

Present number of academics is illustrated by the diagram below.



YEARS 1995-2002

THE PRESENT

COURSES

Restructuring of the University has been accompanied by changes in the syllabi. This process is by no means completed, as the recent economic and political developments have an impact on the increased demand for university education and continuous professional development courses. Professional knowledge and good education have become an important asset, worthy of major investments, which is manifested in the increasing number of students entering the University each year, for basic MSc as well' as post-MSc and PhD courses.

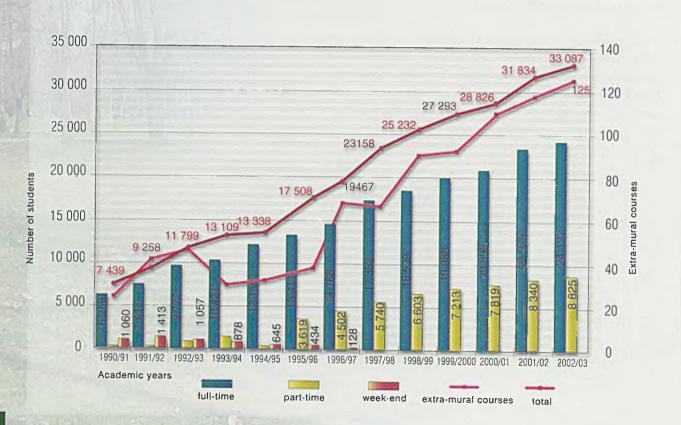
The Silesian Technical University offers courses in 30 engineering disciplines! with over 140 Honours, including: full-time MSc courses, full-time and part-time BSc courses, as well as supplementary MSc courses. Optional PhD courses and post- MSc courses are offered in the most attractive engineering disciplines, enjoying increasing popularity.

Several post- MSc courses are run in English or French.





NUMBER OF STUDENTS IN 1990-2003



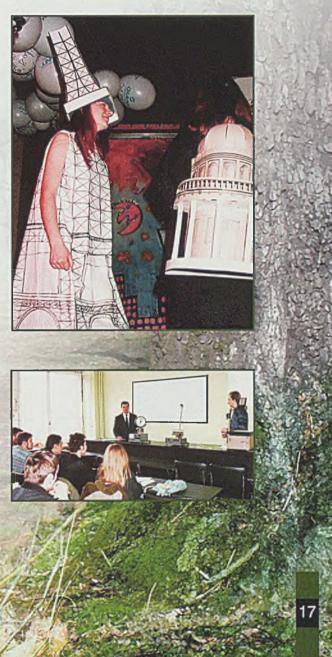
THE PRESENT

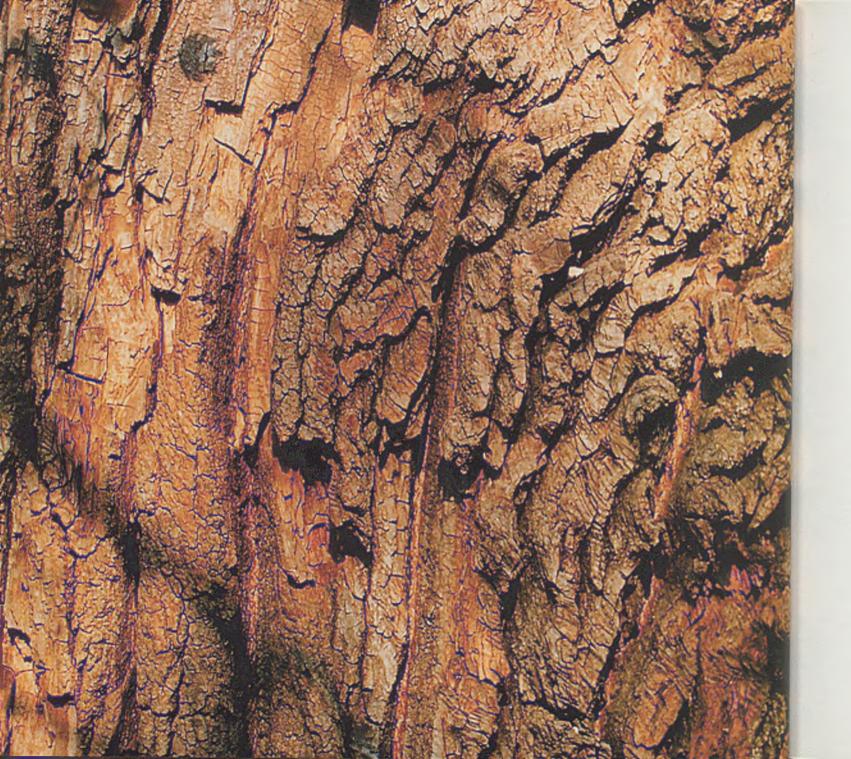
STUDENTS' LIFE

Apart from the educational offer, the University provides its students with opportunities of leading active academic life, supported by the operation cultural, sport and tourist organisations and research societies, co-ordinated by Student Self-Government.

RESEARCH WORK

Besides teaching, the University is deeply involved in research. The University staff includes numerous eminent specialists and experts in many fields of engineering, who guarantee the top quality of research activities. Thanks to its advantageous location in the industrial heartland of Poland, which is also one of the biggest industrial areas in Europe, the University enjoys multilateral cooperation with industry and other research centres in the most important fields of the Polish economy. Joint research and development projects as well as individual contacts between the university staff and other industrial, research and academic centres promote the transfer of modern technology, improving, at the same time, the status and image of our University.





INTERNATIONAL COOPERATION

INTERNATIONAL RELATIONS OFFICE

International Relations Office at the Silesian University of Technology (the SUT) is responsible for international cooperation of the University. The main activities of International Relations Office include organization of trips to conferences for the employees of the University and supervision of all international projects and programmes in which the SUT is involved. The people in charge of international programmes are:

- Mrs Danuta Obracaj the Head of the Office
- Dr Jerzy Mościński Institutional Coordinator for International Affairs
- Socrates/Erasmus programme Mrs Joanna Denkowska (out-going students) and Ms Danuta Kowol (in-coming students)
- 6th Framework Programme Mrs Katarzyna Markiewicz-Śliwa

The contact for the office is:

The Silesian University of Technology International Relations Office ul. Akademicka 2A 44-100 Gliwice tel/fax +48 32 2318085,

e-mail: dwzz@polsl.gliwice.pl

INTERNATIONAL COOPERATION

The Silesian University of Technology continues its cooperation in various fields with international partners. This cooperation is based on bilateral and government agreements, common participation in European projects and individual contacts of the employees. At the moment the SUT is involved in bilateral agreements with 60 universities and research centres.

Trip to Gdansk organised for in-coming students. Academic year 1998/1999



Trip to Malbork organised for in-coming students Academic year 1998/1999





COOPERATION WITHIN INTERNATIONAL PROGRAMMES

5th framework programme of the European Community for research, technological development and demonstration activities

In 1998 the Regional Contact Point was created at the Silesian University of Technology. The aim of RCP's activity was to promote the participation of Polish research teams in 5 FP. Now, RCP provides Silesian researchers with information on the opportunities of application for EU funds for scientific research.

In 2002 the main activity of RCP was to disseminate information on the latest calls in 5 FP (calls on joining the existing projects and on establishing Centres of Excellence), and to prepare the researchers for the participation in 6 FP and European Research Area.

In 2002 the researchers from the SUT took part in 10 projects which were financed from the EU funds.

The call for establishing the Centres of Excellence and Competence was met with interest at the SUT. Thanks to very active campaign run by RCP, 18 applications were submitted to four thematic programmes. EC granted funds to the following Centres of Excellence:

- Environmental Biotechnology Research Centre DEMETER
- Centre for Energy Efficient Technologies and Systems in Indoor Environment Engineering ENER-INDOOR
- Optimalisation, Simulation and Environmental Impact of Energy Systems and Process OPTI-ENERGY
- Centre of Excellence in Physics and Technology of Semireductor Interfaces and Sensors CESIS
- Centre of Excellence "Gliwice absolute Dating Methods" GADAM Centre
- Durability and Reliability of Railway Wheel Sets TRANSMEC

SOCRATES/ERASMUS

The Silesian University of Technology has been an active participant of Socrates/Erasmus programme since it was made available for Polish universities. In 1997 the first application to the European Commission was made and enabled the University to take part in the programme starting from the academic year 1998/1999. The application was supported by previously signed bilateral agreements with 36 European universities. Socrates/Erasmus programme has been very popular among students of the SUT. The following year the programme spread to all the Faculties of the University. Each year the number of signed agreements and therefore the opportunities for the SUT students to study in the European Union increased. In the present academic year 2002/2003 the Silesian University of Technology executes the fifth year of Socrates/Erasmus programme and holds a high position among Polish universities in the ranking of students exchanged within the programme.

Thanks to the formula of the programme, apart from financing exchange of students it is also possible for the employees of the SUT to go abroad with lectures, on monitoring visits or to finance other costs, e.g. the cost of introducing ECTS system at the SUT.

> Contact meeting for in-& out-going Socrates/Erasmus students.

Zbroslawice stable Autumn 2001



2



Year	Number of agreements	Number of departing students	Number of arriving students	Number of employees leaving on lectures	Average amount of the scholarship paid
1998/99	36	85	10	26	382
1999/00	51	146	11	20	346
2000/01	70	138	14	19	298
2001/02	78	146	17	44	241
Total 1997/2002	-	515	52	109	-

Table 1. The development of Socrates programme at the Silesian University of Technology

Within the confines of the Socrates programme (Minerva component), our University takes part in "LABLINK - Virtual Student exchange by linking laboratories" project. The main objective of the project is to develop the methodology and organize distant laboratory experiments useful in the education of engineers.

THE SUT in involved in 3 thematic networks out of all: "Thematic Networks" projects.

- The Faculty of Civil Engineering participates in EUCEET project (European Civil Engineering Education Training) which assembles 59 Faculties of Civil Engineering from significant, European universities.
- The Faculty of Architecture participates in the EU programme LeNotre. The programme is aimed at the landscape architecture schools and faculties of architecture which run courses on the subject. The objective of this programme is to compare the curricula of landscape architecture at European universities
- The Institute of Automatic Control takes part in the thematic network
- in Europe" which assembles more than 80 universities from the EU countries. The main goals of the project include the review and analysis of curricula of automatic control, robotics, electronics, communication and informatics at various universities. The project also aims at the modification and development of the curricula in the above mentioned fields.

First Bicycle Tour around Gliwice for Socrates/Earsmus students Autumn 2000



"THEIERE. Thenatic Harmonisation In Electrical and Information Engineering



LEONARDO DA VINCI

In 2002 THE SUT began a new Leonardo da Vinci programme "Mobility for Industrial Placement Programme MP3". The aim of the programme is to send students for industrial placements in the EU countries. It is anticipated that 20 students will go for training for the period of about 22 weeks.

In 2002 International Relations Office applied for a similar project "Mobility for Industrial Placement Programme for students - MP4-S" which provides that 30 students will go for industrial placement. This project is financed by National Agency of Leonardo da Vinci programme and will be implemented in the academic year 2003/2004.

Apart from programmes connected with students' training, the following units of the SUT became partners in some pioneer projects:

- "Chemical Laboratory Safety Training System" a project on improvement of safety standards in chemical laboratories, coordinated by the Faculty of Chemistry
- "Integrated Knowledge-Based Inter Discipline Study Programme on the Website" - a project on introduction to the website of an educational module connected with designing and production of transport machines, coordinated by the Faculty of Transport
- •"Interactive and Unified E-Based Education and Training in Electrical Engineering" - a project on introducing interactive modules for distant teaching in the field of electrical engineering, coordinated by the Faculty of Electrical Engineering

CEEPUS PROGRAMME

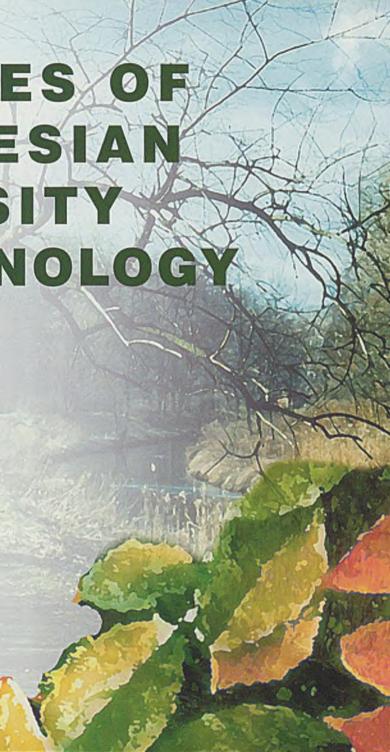
The SUT cooperates within CEEPUS programme through participation in four following projects:

- PL-013 project "Development, testing and processing of contemporary functional, constructional and tools material" - coordinated by the Faculty of Mechanical Engineering
- CZ-13 project coordinated by the Faculty of Materials Science and Metallurgy
- PL-0119 project "Multimedia as Auxiliary Tool in Teaching of Electrical Engineering" - coordinated by the Faculty of Electrical Engineering
- A-0104 project "Intelligent manufacturing and automation" coordinated by the Faculty of Mechanical Engineering

This programme, which is financed by Bureau for Academic Recognition and International Exchange, enables the participants to organize common seminars, summer. courses and visits for a large number of students, PhD students and lecturers.



FACULTIES OF THE SILESIAN UNIVERSITY OF TECHNOLOGY



The studies in architecture were commenced at the Silesian University of Technology in 1945. The independent Faculty of Architecture was established in 1977. Earlier, in the years 1949-54, the Division of Architecture operated within the Faculty of Building and Engineering.

The Faculty Board is entitled to award DSc degrees in Technical Sciences.

THE FACULTY

STRUCTURE

Department of Urban and Country Planning Department of Building and Service Architecture

Department of Architecture and Industrial Transformations

- Division of Methodology of Environmentally Friendly Architecture Design
- Division of Design and Transformation of Industrial Objects and Areas
- Division of Art

Department of History and Theory of Architecture

- Division of Theory and History of Architecture
- Division of Preservation of Historical Monuments and the History of Polish Architecture
- Department of Composition and Technical Fundamentals of Architecture
 - Division of Composition
 - Division Technical Fundamentals of Architecture

Department of Office Buildings Architecture and Design Strategy The Faculty is also equipped with Computer Laboratory and Faculty Library.







OF ARCHITECTURE

COURSES

The Faculty offers full-time MSc and part- time BSc courses in Architecture and Town Planning. It also offers post-MSc courses in:

- Post-MSc Course in Town and Country Planning,
- Post-MSc Course in Preservation of Cultural Monuments and Town Planning.

COOPERATION

The academic staff takes part in the TEMPUS projects on architectonic issues. They co-operate with several academic centres such as: Strathclyde University in Glasgow, Eindhoven Technical University and Chalmers Technical University. The academics also cooperate with foreign research institutes on private basis.



y Planning, f Cultural Monuments



prof dr.hab inż arch Nina Juzwa

The Faculty conducts numerand ous research projects. Among the most important domains are town and country planning in respect of the environmental protection, hous-Ing culture and landscape architecture, - architectonic studies on housing and service objects and their transformations,

RESEARCH

WORK

building biocenothics,

THE FACULTY

- studies on ecological and energy-efficient buildings.
- transformations of industrial structures and complexes and creation of a new generation industrial facilities,
- semiotic aspects of architectonic and urban space,
- trends and changes in style in Polish architecture.
- connotations and formal equivalents of architectonic and urban compositions,
- technical bases for the adaptation of the environment for the disabled.





OF ARCHITECTURE

ACHIEVEMENTS

Among the most important achievements of the Faculty should be mentioned:

- Town and country planning in the ecologically endangered environment. The book was published in 1996.
- The method of a complex selection of "Hortus" plants - a manual published in 1994 and the next new extended editions.
- Project studies and reconstruction and modernisation of the Teatr Polski (Polish Theatre) in Wroclaw.
- Project of the Treatment and Rehabilitation Centre in Katowice.
- The distinction in the Competition for the best building in the Katowice Voivodeship - design and implementation of the GOZG high-rise in Zabrze.
- Organisation of an annual international conference in Rybna on "The Theory and Practice in Modern Architecture".
- A book "Problems of transformation of postindustrial areas" published in 1998,
- Publication of a book "Model transformation of post industrial and polluted areas" (together with Program of Balanced Management of Development of Katowice Urban Agglomeration, super-

vised by the United Nations Development Program and the United Nations Centre for Human Settlement (Hubitat). First and second place in a competition for postindustrial land development in a suburb of Karolina in Ostrava (Czech Republic),

- First place and two distinctions in international competition for a design of European Embassy (in Washington, Tokyo, Cairo and Beijing (Peking), organized by Konstanz University (Germany),

- Third award in international compet tion for experimental building project in Ljubljana (Slovenia)



On December 30th. 1963, pursuant to the decree issued by the Minister for Higher Education, the Faculty of Automatic Control was established and it started its independent activity on February 15th, 1964. The present name was accepted in the academic year 1984/85.

The Faculty Board is entitled to award PhD degrees in Technical Sciences and DSc degrees in Automatic Control and Robotics. **Electronics and Com**puter Science.

THE FACULTY OF AUTOMATIC CONTROL

STRUCTURE

Institute of Automatic Control Institute of Electronics Institute of Computer Science.

COURSES

The Faculty offers three types of courses and a macro-course (in English) with the following Honours:

Course in - AUTOMATIC CONTROL AND ROBOTICS with Honours in:

- Automatic control,
- Robotics.
- Measurement systems,
- Computer control systems.

Course in - ELECTRONICS AND TELECOMMUNICATIONS with Honours in:

- Electronic equipment,
- Biomedical electronics,
- Microelectronics.
- Telecommunications.

Course in - COMPUTER SCIENCE with Honours in:

- System software,
- Databases, computer networks and systems.
- Computer science in control systems.

ELECTRONICS AND COMPUTER SCIENCE

Macro-course in - AUTOMATIC CONTROL AND ROBOTICS ELECTRONICS AND TELECOMMUNICATION. COMPUTER SCIENCE with Honours in:

- Automatic Control, Robotics,
- Measurement Systems,
- Computer Control Systems,
- Electronic Apparatus,
- Biomedical Electronics,
- Microelectronics.
- Telecommunications.
- System Software,
- Databases.
- Computer Networks and Systems.

The Faculty runs full-time BSc studies at the Engineering Education Centre in Rybnik and part-time BSc studies as well as complementary MSc studies in the three courses mentioned above. Within the ERASMUS project the faculty offers students' exchange with the universities in Holland, Germany, Great Britain, France and Portugal.

The Faculty also offers post-MSc courses in:

- Computer Networks, Microcomputer Systems and Data Bases
- Programmable Controllers and Control Systems
- Spatial Information Systems,
- Computer Systems

and PhD courses in:

- Automatic Control and Robotics (full-and part-time)
- Electronics and Telecommunication
- Computer Science



THE FACULTY OF AUTOMATIC CONTROL

COOPERATION

The Institute of Automatic Control has developed a several-year co-operation with significant foreign centres among others with: Rice University, Houston (USA); University of Texas, Houston (USA); Technical University of Novosibirsk (Russia), L.A.A.S du C.N.R.S., Toulouse (France); Nottingham Trend University, University of Reading (England); L'Universite de Montreal (Canada); AO/ASIF Research Institute, Davos (Switzerland); Centre for Mathematics, Amsterdam (Holland); University of Kiev (Ukraine); Uppsala University School of Engineering, Uppsala (Sweden).

The Institute participates in such international projects as COPERNICUS/DYCOMANS, **ERASMUS** and **POLONIUM**.



The Institute of Electronics co-operates with foreign research centres, including among others: the Institute of Biomedical Engineering in Brno, the Department of Biomedical Engineering at the Electronic University of St. Petersburg (Russia); Max-Planck's Institute at the University of Potsdam, the LAMIH Laboratory of the University in Valenciennes (France), Ingelectric GmbH, Munich (Germany), University of California in San Francisco, the FIAT Company in Turin.

The research staff of the Institute of Electronics takes part in such international programs as: COPERNICUS, SABAYECK and COLUM-BUS.

The Institute of Computer Science co-operates with the University of Versailles, the University in Lille (France), the University of Arizona (the USA), the companies Project Automation (Italy), ALDEC (the USA), CEG-ELEC (France) and Deutsche Elektronen Synchrotron (Germany).

RESEARCH WORK

Research activity at the Institute of Automatic Control refers to a broadly understood automatic control, robotics, system analysis and signal processing. The results gained in the following areas should be mentioned: control theory in the incomplete information conditions, adaptation and prediction control as well as expert systems in this field, broadly understood superficial intelligence including mainly intelligent control systems and visual

ELECTRONICS AND COMPUTER SCIENCE

systems with applications in robotics, computer integrated production systems, real time simulations, current measurement problems in view of systems analysis and control in biomedical and biotechnological systems. Research activity of the Institute of Electronics refers to the analysis, synthesis and design of electronic and telecommunication circuits and systems, special microelectronic technologies, digital signal processing, applications of signal processors, programmable controllers and microwave technique. The staff also works on the synthesis and automatic recognition of Polish speech methods, analysis of biomedical pictures, non- destructive testing methods, new sensor design and easily-tested electronic systems.

The Institute of Computer Science carries out research on all the main areas of computer science, including elaboration of software, data basses and data warehouses design, microcomputer science systems and the theory of digital robots, design of computer science equipment, computer networks, communication reports and safety in computer science. The Institute organises the annual conference on computer networks.

ACHIEVEMENTS

Among the most important achievements of the Faculty should be mentioned the participation of the staff in research and implementation works such as:

- Elaboration of new control algorithms

including adaptation, prediction and variable structure algorithms, significant contribution to and modification of the existing design methods for regulators, construction of laboratory stands for, among others, active noise suppression and heat exchanger control;

- The foundation of the Laboratory of Signal Processes, the Laboratory of Spe-. cialised Integrated Circuits Design, preparation of the FUZZY-FLOU system for the assistance of decision-making, preparation and implementation of the control system for vertical plane stching in Columbus Republic of South Africa stee mill.

- Elaboration of software modules onsur ing safety of information in computer sys tems, modules for computer systems of hospital management, oral communication with the computer for a blind user visualisation system for algorithms, computer data collection and monitoring of town councils.



THE FACULTY OF

STRUCTURE

Department of Bridge Construction Department of Building Structures Department of Transportation Department of Building Processes Department of Theoretical Mechanics Department of Geotechnics Department of Building Engineering Department of the Theory of Building Structures Laboratory of Building

COURSES

The Faculty offers full-time MSc^E and BSc^{*} courses and part-time BSc courses with Honours in the following engineering disciplines:

MSc one-stage courses with Honours in*:

- Building and engineering structures
- Management and technology in civil engineering
- Highway and motorway construction.

MSc two-stage courses with Honours in^E: At the BSc level-

- Building and engineering structures,
- Management and technology,
- Transportation engineering,
- Environmentally friendly civil engineering,

At the MSc level

- Building and engineering structures,
- Engineering of building processes,
- Transportation engineering and infrastructure.

CIVIL ENGINEERING

BSc studies in Rybnik with Honours in^E:

- engineering (full-time and part-time studies),
- Construction and architecture (full-time studies).

BSc part-time courses in Gliwice:

- Building structures,
- Management and technology,
- Transportation engineering.

Since the academic year of 1998/1999 a new two-stage system at MSc studies has been introduced within the TEMPUS project. The studies last 6 years- four at the BSc level and two more at the MSc level. At the beginning of the 21st century the system, in combination with the PhD studies, will create a unified three-stage system fully adjusted to the European standards.

E - studies adjusted to the EC standards within the TEMPUS project * - studies with no enrolment continued.

COOPERATION

The faculty is the member of the European Association of Civil Engineering Faculties and participant of the EUCEET project (European Civil Engineering Education and Training) comprising more than 60 European civil engineering faculties. Within the TEM-PUS project which aims at the modernization of educational system

The Faculty was estab-

lished in 1945 as one

of the four faculties.

which gave rise to the

present University.

The Faculty Board is

entitled to award PhD

and DSc degrees in

Civil Engineering.



prof. nzw. Pol. Sl. dr hab, inż. Stanistaw Majewski

THE FACULTY OF

the faculty co-operates with six European universities: University of Loughborough, Bradford University and Glamorgan University in Great Britain, Politecnico di Torino in Italy, Universidade da Beira Interior in Portugal and Horsens Polytechnic in Denmark.

The participation in the SOCRATES projects enables students' and staff exchange with the universities in Great Britain, Denmark, Portugal and Spain. A dozen or so students per year are studying abroad for one semester. For foreign students the classes are delivered in English. The broad scientific co-operation results in the participation in international research prolects and scientific conferences.

RESEARCH WORK

The Faculty is one of two faculties that were awarded the highest category in research activity. Research and development activity of the Faculty comprises all the fields connected with the Analysis and Design of Building Structures, Building Materials Building Technology and Transportation Engineering, including mainly:

- Theory of building structures, testing of materials, elements and complete structures.
- Computer simulations of structure behaviour with the assistance of the MES and MEB,

CIVIL ENGINEERING

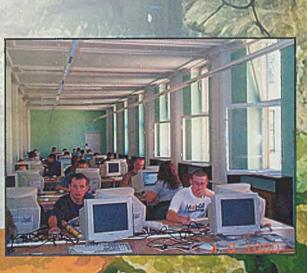
- Elaboration of constitutive models of structural materials and subsoil,
- Elaborations in the field of applied rheology of three-stage dispersed media mainly mortars and concrete mixtures,
- Energy-efficient and environmentally friendly civil engineering,
- Transportation systems, traffic engineering and transportation infrastructure in mining areas.

In the last three years 38 research projects registered by the Faculty staff were accepted and financed by the Committee for Scientific Research.



ACHIEVEMENTS

The Faculty has significant achievements/ in teaching, research and co-operation with industry. More than 11000 graduates have obtained MSc and BSc degrees. These the Faculty was founded more than to years ago. The Faculty Board has awarded 213 PhD degrees and 14 DSc degrees in technical sciences. There are 85 Books and monographs among numerous publications written by the Faculty staff, Some of them have been translated into foreign languages and published abroad Close co-operation with industry resolus the solution of current problems and trip gers off mutual benefits.



THE FACULTY

STRUCTURE

Institute of Organic Chemistry and Technology Institute of Chemistry, Inorganic Technology and Electrochemistry Institute of Chemical and Process Engineering Department of Analytical and General Chemistry Department of Physical Chemistry and Technology of Polymers Department of Coal and Crude Oil Chemical Technology Department of Chemical and Process Apparatus Construction

COURSES

The Faculty offers full-time MSc courses in the following disciplines:

Course in: CHEMICAL TECHNOLOGY with Honours in:

- Organic chemical technology,
- Inorganic chemical technology and electrochemistry,
- Technology of polymers and plastics,
- Chemical technology of coal, crude oil and renewable raw materials.
- Physical measurements in chemical technology.
- Computer science in chemical industry.

Course in: CHEMICAL AND PROCESS ENGINEERING with Honours in:

- Chemical and process engineering
- Environmental protection in chemical engineering
- Computer science and process control

OF CHEMISTRY

Course in: MANAGEMENT AND PRODUCTION ENGINEERING with Honours in:

- Management in chemical industry

In the academic year of 1999/2000 the Faculty started part-time BSc studies in Chemical Technology with Honours in Chemical hazards.

The Faculty also runs full-time PhD courses in chemistry, chemical technology and chemical engineering.

COOPERATION

The staff of the faculty co-operate with several academic centres, e.g. Iowa State University (USA), Kansas University of Lawrence (USA), Utah State University (USA), the Technical University of Kiev and Technical University of Lvov (Ukraine), Universite' de Rennes (France), Universita da Sapienza and Universita di Bologna (Italy), University College, London (Great Britain), Vysoka Technicka Skola, Bratislava (Slovakia) and the National Research Centre (Egypt). The co-operation refers to research in several fields, the exchange of professors, young academics with a PhD degree, PhD course students and MSc course students, as well as running PhD. courses in the "joint-supervision" system.

The Faculty was established in 1945 as one

of the first four faculties of the Silesian Uni-

versity of Technology.

The Faculty Board

is entitled to award

PhD and DSc degrees

in Chemistry, Chemi-

cal Technology and

Chemical Engineering.



RESEARCH WORK

Research activity of the Faculty comprises basic and applied sciences, focusing on: kinematics, process and technologies of thermal decomposition (steam cracking hydropyrolisis) of carbohydrates and their catalytic transformations (dehydrogenation, oxidative coupling, isomerisation); synthesis, structure and reactivity of five-and six-element heterocyclic systems; chemistry of phosphorous ylids; metal complexes in organic chemistry; oxidization of



THE FACULTY

organic compounds; synthesis and reaction of peroxy compounds; engineering of chemical reactions; macromolecular chemistry; physical chemistry and technology of polymers, synthesis and modification of polymers; structure and physical properties of polymers and polymer membranes, gas and ion transportation in polymer s and polymer membranes; catalytic processes in technology and environmental protection; coke technology; distribution and process technology of liquid hydrocarbons; utilization of chosen heavy industry waste; technologies and theory of inorganic and electrochemical processes; utilisation of chosen heavy industry products; new technologies and the theory of inorganic and electrochemical processes; optimisation of technical and apparatus solutions of industrial processes; static analysis and macro kinetics of inorganic processes; phase transformations and interface processes in multicomponent systems; substances of a special clarity and properties; utilisation and disposal of industrial waste; corrosion and protection

OF CHEMISTRY

against it; industrial chemical analysis and eco-analysis, analysis of biological materials, new reactions and analytic reagents; heat and mass exchange; crystallisation, filtration, mixing, sedimentation, distillation, pneumatic transportation, gas cleaning, drying; new solutions for the structure of heat exchangers, distillation and absorption columns, loose material dryers, sedimentation tanks with fillings, equipment for the gas cleaning and separation, static mixers.

ACHIEVEMENTS

In the recent years the Faculty has organised many prestigious international con-



ferences: III Congress of Chemical Technology (Gliwice 5-8 Sep. 2000), W. National Analytic Conference (Gliwice 9-14-July 2000), International Seminar "Laboratory Quality Safety Management" (TEMI US Phare JEP 13444-98, Ustroń Zawodzne 6-7 Nov. 2000).

Among the greatest initiatives of the Faculty at national scale coordination of PCZ 03-16 research project should be mentioned, which involved 27 Chemistry faculties of Polish universities and was designed for elaboration of complex organizational system of management of chemical substances at chemistry and related faculties.

The Faculty was founded on May 24th, 1945 as one of the first four faculties of the Silesian University of Technology. The Faculty Board is entitled to award PhD and DSc degrees in Electrical Engineering.

THE FACULTY OF

STRUCTURE

Institute of Power Systems Engineering and Control Institute of Measurements and Automatic Control in Electrical Engineering

Institute of Theoretical and Industrial Electrical Engineering Department of Electric Machines and Appliances

COURSES

The Faculty offers BSc and MSc courses in:

ELECTRICAL ENGINEERING with Honours in:

- Automatic control and measurements in electrical engineering
- Electric machines and appliances
- Electric power engineering
- Electrical engineering in transportation
- Conversion and utilisation of electric energy.

ELECTRONICS AND TELECOMMUNICATIONS with Honours in: – Power engineering electronics.

- Power engineering electromics.

The Faculty also runs the following post-graduate courses:

- Electric Energy Market after the enactment of the new Energy Law.
- (Organisation and Accreditation of Laboratories. And:
- 4-year stationary PhD course in Modern Problems of Electrical Engineering.

ELECTRICAL ENGINEERING

COOPERATION

The Faculty staff co-operate with several foreign scientific centres and universities such as: SVST Bratislava (Slovakia), Vysoka Skola Banska (Czech Republic), Technische Universitat Magdeburg (Germany), Fachhohschule Trier, Fachhohschule Darmstadt, Fachhohschule Regensburg, Technical University in Duisburg (Germany); PGTU Mariupol (Ukraine), Cork Institute of Technology, Cork (Ireland); Wright State University Dayton OH- (USA); University of Windsor, Windsor (Canada); Novosibirskij State Technical University, (Russia); University in Catania, (Italy); Electric Power Research Institute, (USA) Physikalische Technische Bundesanstalt, Braunschweig (Germany) Aristotle University of Thessaloniki (Greece), Technical University in Tokyo (Japan), Technical University of Catalunya in Barcelona (Spain), Ensto Sekko Oy (Finnland), Institute Superior Technica Lisbon (Portugal)



RESEARCH WORK

prot. rzw. Pol. St. of hab. in Z. Bogustaw Grzesk Research and development

activity conducted in the Faculty is focused on; overhead low and medium voltage lines; high-voltage solid conductors in the SF6 insulation; reliability, efficiency and development of electric power system and its elements; forecasting of the demand for electrical energy; digital modelling and simulation of processes in electrical engineering; micro-



THE FACULTY OF

processor measurement and safety systems: short-circuit identification; optimum automatic control systems for the protection of distribution networks; optimum purchase of electrical energy by industry and wholesale and final rates; design and technology of measurement transducers of electric and non-electric parameters; programmable measurement systems; precise measurement of electric parameters and capacity standards; the quality of electrical energy and electromagnetic compatibility in the systems of distorted voltage and current; computer methods of electromagnetic field computations; non-linear models of electrical machines; power and electronic conversions; microprocessor control of electric drives; control and regulation of electro thermal systems; power and electronic drives with elastic joints; drives with machines of permanent magnets; electric drives of vehicles; control of solar and wind power stations; traditional drive systems of direct and alternating current; design and technology of electric machines; mechatronics; analysis of parasitic phenomena in induction machines.

ELECTRICAL ENGINEERING

ACHIEVEMENTS

Among the most important achievements of the Faculty should be mentioned: the microprocessor systems of electro energetic control automatics (system CZAZ, first in Poland), microprocessor fault finder in electric power lines, computer system ROZWÓJ for power engineering, control model for thermal power station, preparation of methodology and software for the location and choice of parameters for the stabilisers of the national electric power system; participation in the implementation of reforms in the Polish electric power engineering and in the creation of the model for the energy market; elaboration of power theory, creation of, first in Poland, industrial frequency drives with current inverter 250kW, 500V; inductive heating system (Windsor University); application of microprocessor control in electric drives and power engineering electronic converters (ENEL); implementation of microprocessor system of 160kW wind power plant control (NOWOMAG); modernization of turbo generators for the increase in power rating, elaboration of

methodology and algorithms of thermal and mechanical calculation of electrical machines for state electrical power engneering; preparation and implementation of tools for the testing of measurement standards of the highest precision for the Central Office of Measurements in Warsaw¹ and at the Physikalisch Technisch Bundesanstalt in Germany.

The Faculty of Mining and Geology was opened in 1950. The Faculty Board is entitled to award PhD and DSc degrees in mining engineering.

Pas mitagen unt

THE FACULTY OF

STRUCTURE

Department of Mining Electrification and Automatic Control Institute of Mining Mechanisation Department of Mining Management and Restructuring Department of Geomechanics, Underground Engineering and Land Surface Protection Department of Mineral Processing and Waste Utilisation Institute of Mining Technology Department of Applied Geology. Museum of Mining Deposits in memorial of Czesław Poborski

COURSES

The course in: Mining and Geology offers Honours in:

- Mining electrification and automatic control
- Underground engineering and land surface protection
- Mining technology and waste management
- Mining Surveying
- Mining Geology
- Environmental management of mining areas
- Mining machinery and drilling equipment
- Processing and marketing of solid minerals

Course in: Management and Production Engeenering offers Honours in :

- Geology for Tourism
- Water management
- Organisation and economics of mining
- Methods of managing occupational safety and hygiene

MINING AND GEOLOGY

Apart from five-year full-time MSc courses the Faculty runs:

- three and a half year part-time BSc courses
- two- year part-time post BSc courses
- three-year extramural post BSc courses
- post MSc studies and PhD courses

COOPERATION

The Faculty co-operates in the field of mining, geology and environmental protection with all counterpart Polish research institutes and university centres. As far as foreign co-operation is concerned, the following partners should be mentioned: VSB-- TU Ostrava, Carol's University in Prague, State Mining University MGGU in Moskow (Russia), Mining University of Jaketerinburg Russia, Ugol Irkutsk (Russia), Technical University in Donetsk (Russia), Rhine-Westphalian Technical University in Aachen, TU-Bergakademie Freiberg, TU-Dresden Institut fur Fordertechnic, TU- Chemintz Institut Materialfluss und Fordertechnik, FH Munster, Fachgebiet Fordertechnik, TU-Claustal Institut fur Bergbau, FH- Trier Fachbereich Maschinenbau, Technische Hochschule Bochum, FH- Bielefeld Fachgebiet (Germany), Montanuniversitaet Leoben (Austria), Belgrade Technical University (Yugoslavia), Technical University in Kosice (Slovakia), University of Nottingham Imperial College in London, Cambrigde University, Doncaster College (Great Britain), University in Oviedo (Spain), ISS ins. Welcome (Republic of South Africa), Friversite de Lille (Prance),



THE FACULTY OF

Academy of Sciences (Ukrahe), Japanese Institute of Geology in Tsukuba (Japan), Chinese University of Mining Technology

in Beijing (China), Institution of Engineering and Mining Surveyors Fremantle (Australia), Technical Institute of Mining Engineering and Geology of Hanoi, Vinacoal, Hanoi (Vietnam).

RESEARCH WORK

Research and development projects of the Faculty comprise all fundamantal fields of modern mining engineering:

- geological surveying,
- economically efficient extraction of mineral deposits,
- application of energy-efficent and reliable machinery,
- consideration of occupational health and safety standards,
- consideration of environmental protection requirements.



MINING AND GEOLOGY

ACHIEVEMENTS

The academic staff members of the Faculty have been members of state and local administrative agencies, for example Janusz Steinhoff, DSc. Eng. is current Minister of Polish Economy. Numerous others have served as advisors or have been members of local self government or voivodeship authorities. Some have been Rectors and Vice Rectors. Two eminent Professors of our Faculty have been conferred the honorary doctorate: Professor Mirosław Chudek, DSc. Eng. and Professor Walery Szuścik, DSc. Eng.

In 1999 Piotr Cheluszka, DSc. Eng. was granted the Award of the Minister of Education.

Since its foundation, the Faculty has conferred 81 DSc degrees, 444 Ph.D degrees in technical sciences, graduating over 14800 MSc, BSc full-time, part-time or extramural students. Altogether, in 1996-2001 only the Faculty published 54 handbooks and academic coursebooks, not to mention about 500 articles in national and foreign profession al journals. A few hundred foreign and home conference papers were delivered It organized 65 conferences on both national and international scale. Members of the Faculty teaching staff obtained 17 patents and sold 32 licences.



The Faculty was established in 1993 after a merger of two separate Faculties: Energy and Mechanical Engineering and Environmental Engineering. The Faculty Board consisting of 57 members is entitled to confer PhD and DSc degrees in environmental engineering and machine construction and operation.

THE FACULTY OF ENERGY

STRUCTURE

Department of Heat Supply, Ventilation and Dust Removal Technology Department of Air Protection Department of Technology and Equipment for Waste Management Institute of Water Engineering and Sewage Treatment Institute of Machines and Power Generation Systems Institute of Thermal Technology Division for the Diagnostics and Testing of Combustion Engines Department of Environmental Biotechnology.

COURSES

Course are run at two stages: 1st stage (seven semesters): BSc studies 2nd stage (three semesters): MSc studies The ECTS credit system is observed. The Faculty offers courses with Honours in two engineering disciplines:

ENVIRONMENTAL ENGINEERING AND ENVIRONMENTAL PROTECTION

- full-time MSc courses with Honours in:
- Waste management
- Water, sewage and soil engineering
- Environmental protection and clean technologies in the power generation and automotive industries
- Heat supply, ventilation and air protection
- Utility heat engineering
- Occupational hygiene and safety.

AND ENVIRONMENTAL ENGINEERING

part-time BSc and extra-mural courses with Honours in:

- Technical fittings
- Environmental protection techniques.

MECHANICS AND MACHINE DESIGN (POWER ENGINEERING) full-time MSc courses with Honours in:

- Thermal and gas power engineering, refrigerating engineering and utilisation of cars
- Machines and systems for environmental protection.
- Power plants, machines and power generation systems. Part-time and extramural BSc course in:
- Operation of machines and power generation systems

Other courses offered by the Faculty include post-MSc studies in:

- Power Generation Auditing in Industry
- Waste Management
- Occupational Safety and Hygiene
- Environmental Protection in the Power Generation and Automotive Industries
- New Water and Sewage Treatment Technologies
- New Power Generation Technologies- technology, economy ad management
- Power engineering, heat, gas and multimedia market (run together with the Bac ulty of Electrical Engineering).

Post- MSc course in Management of Industrial Companies is offered for 4th and 5thyear students.

COOPERATION

Members of the Faculty are involved in a tive co-operation with foreign researed centres and participate in the following international research programs

Polish-German Agreement on No-Border Institute, V EU Framework Programme IEA Cooperation Agreement, TEMPUS PHARE, Joint European Project of "Edu-



THE FACULTY OF ENERGY

cation in the field of power engineering and environmental protection"

SOCRATES-ERASMUS student exchange programme.

Other forms of international cooperation entail permanent contacts with foreign research centres, including the following universities in: Berlin, Dresden, Stuttgart, Clausthal, Zittau, Halle, Wittenberg, Madgeburgh, Bohum, Merserburgh, Munich, Gent, Lyngby, Erlangen, Wessex, Florence, Athens, Kassel, Louvain, Kosice, Ostrava, Tampere, Karlsruhe, Lisbon. The co-operation involves joint research works, participation in conferences and student exchange programmes. The Faculty obtained three Centres of Excellence of the European Union.

RESEARCH WORK

Research work is focused on the following engineering disciplines:

ENVIRONMENTAL ENGINEERING: air protection, aerodynamics of ventilation systems and dust removal, heat engineering for the building industry and for public utility systems, identification of pollutants and their expansion, economic aspects of air protection, design and construction of waste management equipment, application of membrane processes in industrial waste treatment and water treatment technologies, application of micro-biology in environmental engineering and environmental protection, optimisation of water supply and sewage treatment systems.

MECHANICS AND POWER MACHINE DESIGN: theoretical research and testing of new flow machines, operation and diagnos-





AND ENVIRONMENTAL ENGINEERING

tics of machines and power generation systems, analysis of complex heat exchange processes, development of computational methods for boilers and heat generation devices, methods of analysis and synthesis of gas- steam and other energy systems, automatic control of heat and power engineering, thermodynamics and heat flow, application of renawable energy sources, thermal nad nuclear power engineering, cooling systems and air-conditioning in industry, gas engineering, techniques and theory of combustion and combustion of low-emission fuels, desulphuring and denitrification of fumes, design and operation of fuel engines, fuel technologies.

ACHIEVEMENTS

The Faculty prides itself on the highest (1st) category in the State Research Commitee Classification. Major research projects accomplished by members of the Faculty in the field of environmental management include: a Gold Medal received at the EURE-KA International Exhibition of Technological Innovation in Brussels, and Award granted by the Chair of the State Research Commitee.

The Faculty students have won several scholarships granted by the Minister of Edu-



cation, Silesia Eco-Foundation, Award of the Minister of Building, etc. Graduates of the Fcaulty have served as presidents and managing directors of the best and biggest Polish power plants, hear generation plants, public utility companies Some of them have also been members of Polish government, state and self-government administration.



THE FACULTY OF

STRUCTURE

Institute of Physics Institute of Mathematics.

COURSES

The Faculty offers courses in three disciplines with the following Honours:

ELECTRONICS AND TELECOMMUNICATION

BSc full-time courses with Honours in:

- Optoelectronics and wave-guide telecommunication

TECHNICAL PHYSICS

MSc courses with Honours in:

- Environmental physics
- Computer science in physics
- Optoelectronics

MATHEMATICS

MSc course with Honours in:

- Mathematics in computer science and economy
- Discrete mathematics and mathematical foundations of computer science
- Theoretical mathematics
- Applied mathematics and mathematical modelling
- Mathematical statistics and management
- Data processing and protection
- Teacher training course in mathematics.

MATHEMATICS AND PHYSICS

Full-time BSc courses with Honours in:

- Mathematical methods in economy and management
- Statistical methods and econometrics
- Mathematical methods in computer science and management
- Data processing and protection.

Part-time BSc studies with Honours in:

- Mathematical methods in economy and management
- Mathematical methods in computer science and management
- Statistical methods and econometrics.
- Data processing and protection

The Faculty also offers part-time post-BSc courses with Honours in the same disciplines as at full-time BSc studies and in Applied Mathematics for the graduates of other BSc. studies.

The Faculty also runs post- MSc courses in:

- Teaching Physics
- Teaching Mathematics at Schools
- Teaching the Fundamentals of Computer Science at Schools
- Computer-aided Applied Statistics, Accountancy and Financial Mathematics.

The Faculty was

founded on June 28th. 1969, pursuant to the

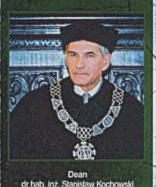
decree issued by the

Minister for Educa-

tion. At that time it

was the only faculty of

this type in Poland.



THE FACULTY OF

COOPERATION

The academic staff of the Faculty take part in international projects, contracts and informal agreements.

The Institute of Physics co-operates with numerous foreign universities and research institutes within bilateral agreements and government programs including NERC Radiocarbon Laboratory, East Kilbrigde (Scotland), Laboratoire des Sciences du Climat et de Environnement, CNRS, Gif-sur-Yvette (France); Department of Quaternary Geology, Luds Univer-



sity (Sweden); Centre de Datation par le Radiocarbone, Universite Claude Bernard Lvon (France), Department of Environmental Radiogeochemistry, UAS, Kiev (Ukraine); Institute of Physics, University of Iraklio (Greece), Institue of Physics, University of Bari, (Italy); Institute of Camerino, Italy; Research Centre for Interface Ouantum Electronics, Hokaido University, Sapporo (Japan); Departement d'Electroniques, Ecole Centrale de Lyon, Ecully (France); Institute of Physical and Theoretical Chemistry University of Tubingen (Germany); University Centre of Science and Technology, University B.Pascal, Clermont-Ferrrand (France), University of Applied Dermatopharmacy, Martin Luther University, Halle (Germany), which results among others in joint scientific publications.

The Institute of Mathematics: Department of Mathematics, University of Waterloo (Canada); Department of Mathematics, University of York, Toronto (Canada); Department of Mathematics, University of Central Florida (USA); Department of Mathematics and Statistics, University of Campinas (Brazil).

MATHEMATICS AND PHYSICS

RESEARCH WORK

The Faculty of Mathematics and Physics conducts research projects in the following engineering disciplines:

Institute of Physics:

- acoustooptics
- photoacoustic and photothermal phenomenon in measurements
- acoustoelectronics
- applied nuclear physics
- physics of semiconductors
- microelectronics of semiconuctors
- wave-guide optoelectronics.

Institute of Mathematics:

- functional analysis
- algebra and group theory
- numerical methods
- mathematical statistics
- mathematical modelling
- difference equations
- application of mathematics.

ACHIEVEMENTS

Among the most important achievements of the Faculty should be mentioned the foundation and development of the following laboratories:

- acoustooptics, thermal waves, wave+ guide sensors, low activities,
- laboratory of radioactive notope
- C-14
- and planar optical wave-guide electronics
- optics of semiconductors, photo electrics of semiconductors
- technology of semiconductor surfaces, semiconductor sensor materials
- photoacoustics and acoustoelectronics
- microcomputer laboratory.

International research projects are carried out within the 5th Framework Project of the EC and projects ordered by the Com mittee for Scientific Research. The Departy ment organizes two Centres of Excellence within the EC projects.

The Faculty organizes cyclic international scientific conferences in the field o acoustics, photothermics, isotope C 14 semiconductor microelectronics and gas sensors as well as groups and group rings.

The publication of a few hundred works in world-known magazings constitutes another achievement of the Facul

At first the Faculty of Mechanical Engineering was opened in 1945 when the Silesian University of Technology was founded. The present name of the Faculty of Mechanical Engineering was adopted in 1965.

The Faculty Board is entitled to confer PhD and DSc degrees in materials science and machine technology and operation.

THE FACULTY OF

STRUCTURE

Institute of Engineering Materials and Biomaterials (with 5 Divisions) Department of Technological Processes Automation and Integrated Manufacturing Systems (with 2 Divisions)

Department of Strenght of Materials and Computational Mechanics (with 2 Divisions)

Department of Fundamentals of Machinery Design (with 2 Divisions) Department of Machine Technology

Department of Mechanics, Robots and Machines

Department of Applied Mechanics (with 2 Divisions)

Department of Foundry

Department of Welding

Department of Processing of Metals and Polymers (with 2 Divisions)

COURSES

The Faculty offers full-time and part-time courses (including evening and week-end courses) as well as extra-mural courses, in accordance with the elastic univeristy higher education model popular in other European countries. The core element is a 5-year full time MSc course, with an option of graduating with the BSc degree or continuing a two-year post BSc course leading to the MSc degree. MSc graduates may enroll on follow-up PhD courses offerred at day-time as well as evening classes. The courses are run with Honours in the folliwng engineering disciplines:

AUTOMATIC CONTROL and ROBOTICS, with 10 Honours MECHANICS and MACHINE DESIGN, with 15 Honours TECHNICAL AND COMPUTER SCIENCE EDUCATION, with 5 Honours

MECHANICAL ENGINEERING

PRODUCTION ENGINEERING and PRODUCTION MANAGEMENT, with an option of creating an individual study-line selected out of the 125 offerred HON-OURS courses and selecting a combination of engineering subjects out of a general offer of 15 discipline blocks. The Faculty also runs post MSc course for engineers and teachers of engineering

disciplines.

PhD courses are offerred in:

- MACHINE DESIGN and OPERATION,
- MATERIAL SCIENCE,
- MECHANICS.

COOPERATION

The Faculty enjoys wide co-operation and partnership with over 150 foreign research and development institutes and universities located all over the world It participates in major European research and educational development programs such as: TEMPUS, CEEPUS, COPERNICUS, SOCRATES-ERASMUS LEONARDO. Academics employed in the Faculty are members of renowned international research societies and organisations. The Faculty prides on traditionally good collaboration with industry and industrial institutes.

RESEARCH WORK

Institute of Engineering Materials and Biomaterials: steel engineering, materials for structural alloys, special alloys, steel and since d materials used for tools, crystalline are amorphous materials, technologies of processing materials, biomedical engineering and biomaterials, engineerine of surface layers obtained in heat, thermo-chemical and physical processes sion resistance of steels and alloys, quality control and environmental management and green technologies, cleaner production technologies, computer ided methods of research and engineering works in material science.



Dean prof. dr hab. inż. Leszek Dobrzański

THE FACULTY OF

Department of Technological Processes Automation and Integrated Manufacturing Systems: Robotics and automation of technological processes; me-chanical vibration; machine dynamics and vibration insulation; computer systems of production management; computer-aided machine design and manufacture; mechatronics; control of technological processes; control in dynamic systems; computer-aided decision-making systems; theory and application of graphs in mechanics and machine dynamics; theory of mechinery and machines; drive systems; virtual models in machine design and operation; integrated production systems. Department of Machine construction: Construction and control of machine tools, processing and application of plastics, machine cutting and metrology of geometric quantities, unconventional processes and

Department of Mechanics, Robots and Machines: mechanics, robotics and mechatronics, engineering machines, transportaion systems and load-carrying structures; mechanical vibrations and dynamics of machines, theor, of machines and mechamisms; graph theory and its application in mechanics and dynamics of machines; virtumodels in machine design and operation.

technologies for plastic processing of metals

Department of Applied Mechanics: dynamics of machines and electro-mechanical drive systems; theory and application of finite and boundary element methods; sensitivity analysis and optimization of machine design; dynamics of lift systems; biomechanics; modelling of multi-element systems; application of dispersed computations in discrete system analysis; mechanics of continuous systems and dynamics of thin-wall bars.

Department of Foundry: solidification and crystalisation of metals, alloys and composite formation processes; physical treatment methods; theory of machine elements wear; selection of resistant alloys; influence of alloy structure on the durability and reliability of machine elements; cast production technologies (computer simulations); pneumatic and hydaulic transport systems and their application in industry.

Department of Fundamentals of Machine Design: computer- aided design, construction and operation of machines and quality assurance; technical diagnostics of machines; development and application of experts systems; methods and techniques of noise reduction and vibartions of machines.

MECHANICAL ENGINEERING

Department of Welding: testing of weldability of modern structural materials; consummables for welding and surfacing; guality control and monitoring of welding processes; modelling of welding processes.

Department of Strength of Materials and Computational Mechanics: mechanics of solids and continuous media; biomechanics and thermo-mechanics; computer methods applied in mechanics, thermo-mechanics and machine construction; optimisation of systems and processes and sensitivity analysis; strength of structural elements; thermodynamics of casting processes; finite elements method; boundary elements method.

Department of Processing of Metals and Polymers: metal forming and plastic processing; properties and processing of polymers, polymer composites and laminates.

ACHIEVEMENTS

Since its opening in 1945 the Faculty has graduated: over 6000 MSc engineers, nearly 7000 BSc engineers; and has conferred: over 400 PhD and about 70 DSc degrees in technical sciences.

The Faculty has been marked with the highest category in the classification of the National Research Committee. Every year academic staff members publish about 500 articles for Polish and international scientif-

ic journals and conference materials, as well as about 20 books and student textbooks. They are active members of activity and research commissions, committees and dive sions at the Polish Academy of Sciences inc well as counterpart foreign academies. The participate in national and internations conferences and have won many individual and collective awards granted by the Polish Prime Minister, Polish Minister of Education, FIAT Concern and Polish publishers, Also, they organize and hold about 10 annual conferences, a few of which are of interna tional renown.



The Faculty emerged in the course of transforming the Faculty of Metallurgy, founded on June 13, 1969. The present organisational structure was settled after it was incorporated with the Institute of Transport (1992), and separated from the Institute of Organization and Management (1995), which became a separate Faculty of organization and Management. The Faculty Board is entitled to confer PhD and DSc degrees in materials science and metallurgy and a PhD in technical sciences in machine design and machine engineering.

THE FACULTY OF MATERIALS

STRUCTURE

Department of Metallurgy Department of Mechanics and Metal Forming Department of Electrotechnology Department of Process Energy Department of Technology of Metal Alloys and Composites Department of Materials Science Centre of Post-Graduate Studies, New Technologies and Restructuring of Industry Post-MSc Training Centre in New Technologies and Industrial Restructuring **Computer Laboratory ETO**

COURSES

The Faculty offers full time MSc, BSc, part-time BSc courses, as well as supplementary post BSc courses, PhD and other professional development courses in three engineering disciplines with the following Honours to choose:

Full – time courses

MATERIALS SCIENCE:

- Metal materials
- Ceramic and sintered materials
- Composite materials and polymers
- Surface engineering
- Quality engineering

METALLURGY:

- Electrometallurgy
- Process Energy
- Computer-aided systems for metallurgical processes
- Process engineering
- Plastic working and heat treatment of metals

SCIENCE AND METALLURGY

- Environmental protection and waste management
- Quality control in foundry
- Organisation and production management.

PRODUCTION MANAGEMENT AND ENGINEERING

- Management and environment protection
- Computer science in management
- Management of small and medium firms
- Medical engineering
- Production engineering of plastics and composites
- Computer aided material engineering
- Materials management
- Management of processes in surface engineering
- Foundry production engineering
- Ouality engineering
- Management and metallurgy processes engineering
- Utilisation and recycling technologies
- Organisation and management in industry

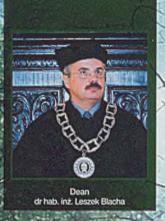
Part-time courses

COURSE IN: MATERIALS SCIENCE (with no Honours)

COURSE IN METALLURGY

- Metallurgy and foundry technology
- Plastic working and heat treatment of metals
- Recycling technologies, heat management and ecology
- Electrometallurgy, control and computerization of metallurgy processes
- Informatics in metallurgy processes

COURSE IN PRODUCTION MANAGEMENT AND ENGINEERING Honours the same as at full-time courses.



THE FACULTY OF MATERIALS

OOOPERATION

The Faculty co-operates with multiple foreign research and development institutes and academic centres, entailing the

following countries: USA -University of Minnesota, University of Tennesee); Germany - M. Luter University; France- Ecole Central Paris; Great Britain-Brunel West London University; Sweden -Chalmers University; Russia; Ukraine; Italy, Holland; Czech Republic - Vysoka Skola Banska in Ostrava, Zapadoceska Univerzita Plzen; Slovakia-Technicka Univerzita in Kosice; Lithuania and Estonia. Furthermore, it co-operates with Polish universities (Academy of Mining and Metallurgy in Cracow, Warsaw Technical University, Technical University in Częstochowa, research institutes (Institute of Ferrous Metals, Institute of Non-ferrous Metals) and many industrial companies, steel mills, etc. especially those operating

RESEARCH WORK

Research work runs along the engineering disciplines of material science and metallurgy, with particular focus on the following issues: wasteless technologies, waste utilisation and management, mathematical modelling and optimisation of metallurgical processes, environmental management, electric heating engineering, computer-aided engineering process design, theory and technology of metal working, mechanics of sintering, biomechanics, modelling of heat flow processes, kinetics of combustion, kinetics of creation and destruction of pollutants, composite materials, surface engineering, foundry, structural analysis and investigating the properties of chemical composition of materials used in complex mechanical load and heat conditions as well as corrosive impact, technologies of special property ceramics, stereological methods, new biomedical materials.

SCIENCE AND METALLURGY

ACHIEVEMENTS

The number of the Faculty graduates has passed 9000, with 60 DSc and nearly 200 PhD degrees conferred. Over 150 students have already graduated from the Polish-American Post MSc Studies in Environmentally Friendly Industrial Restructuring. The achievements of the Faculty and its academics are manifested by

300 publications turned out every year, including over 20 books, university textbooks and monographs, 200 R&D projects, grants finances by the State Committee for Scientific Research, implementation projects, organization of 15–20 national and international conferences. The Faculty has won several awards at international fairs and exhibitions (LIIF London 1997, IMPEX'XIII Pittsburg 1997, 70 International Poznań Fairs, BRUSSELS EUREKA 98). Since 1970 the Faculty staff members and students have been in charge of the preservation of the metallurgical plan in Maleniec. For 25 years now The Faculty has been organizing annual congress of graduates on Steel Worker's Day



THE FACULTY OF

STRUCTURE

Department of Vehicle Service Department of Automotive Vehicle Construction Department of Mechanical Handling Department of Railway Engineering Department of Traffic Engineering and Transport Informatics

COURSES

The Faculty offers full time MSc, BSc, part-time BSc courses, as well as supplementary post BSc courses, PhD and other professional development courses.

The faculty site is based in Katowice as well as two teaching units in Tychy and Bytom. The students can choose from one of the disciplines:

- Vehicle Service
- Traffic Engineering

The course in Vehicle Service offers the following Honours:

- Operation and Maintenance of Automotive Vehicles
- Operation and Maintenance of Rail Vehicles
- Mechanical Handling

TRANSPORT

COOPERATION

The Faculty co-operates with the following foreign universities: Vysoka Skola Banska in Ostrava (Czech Republic), Transport University in St. Petersburg (Russia), Caledonian University in Glasgow (UK), China University of Mining and Technology in Xuzhou Jiangsu (China), Kaunas University of Technology in Kovno (Lithuania), Lvov Polytechnics in Lvov (Ukraine) and Ruhr Universitat in Bochum (Germany).

Furthermore, it co-operates with Polish universities and research institutes (University of Mining and Metallurgy in Cracow, The Warsaw University of Technology, Transport Faculties of other universities) and many industrial companies and research centers, especially those operating in Silesia.

Sep. 2002.

The studies at the trans-

port discipline were

commenced in 1969, initially at the Transport

Communication Divi-

sion of Energy Engineering Faculty and since

1974 at the Institute of

Transport and Commu-

nication, which served

as the faculty. In 1984

the Institute of Trans-

port (disciplinary) was

established, which in the

course of university reorganisation in 1992

was included in the

structure of a new Facul-

ty of Materials Science, Metallurgy, Transport and Management. Due

to the development of

educational and scientific basis and the depart-

ment itself. The Institute

of Transport was transferred to the Faculty of Transport, pursuant to the Senate decree of 1st

THE FACULTY OF

TRANSPORT

prof. dr hab. inż. Andrzej Wilk

RESEARCH WORK

Research work focuses on five topic groups:

- transport research
- traffic control in transport
- vehicle service
- machine and vehicle design
- mechanical handling.

Within these groups the following research is carried:

- optimisation of transport network
- microprocessor techniques and stimu-
- lation research in transport
- mathematical modelling of combustion

processes in engine

- application of alternative fuels in motor transport
- wear of elements of transport machines
- computer-aided design of transport machines sets
- research on gear transmission, clutches and conveyor belts
- vibroacoustic diagnostics of machines and vehicles
- suspense dynamics
- application of numerical methods in designing and optimisation of wheel sets and wheel- rail sets

ACHIEVEMENTS

The number of the Faculty graduates has passed 4200. Annually the faculty staff publish about 180 papers and carry out 70 R&D projects and grants financed by the State Committee for Scientific Research, implementation and service projects. The faculty organises 11 periodic conferences, both national and international. Many of the faculty members belong to home and foreign organizations (e.g. PAN, International Institute of Acoustics and Vibration, Technical Committee of Standardisation). The faculty has been granted national and foreign authorization for official certification research of vehicles adopted for gas fuels and official certificate of machines and vehicles for railway operation and maintenance. The faculty has also authorisation for postgraduate studies for teachers of science subjects according to IGD (International Association for Engineering Education). Furthermore, at The Railroad Transportation Department European Center of Excellence "TRANSMEC has been opened for rail transport.

The Faculty of Organisation and Management emerged from the Faculty of Materials Science, Metallurgy, Transport and Management on 1 September, 1995. It is situated in Zabrze but teaching is also carried out in Katowice.and Rybnik. The Faculty Board is entitled to award the Ph.D. degree in economic sciences.

THE FACULTY OF

STRUCTURE

Department of Management and Marketing Department of Applied Social Sciences Department of Economy and Finance Department of Production Management Department of Fundamentals of Technology Systems Department of Computer Science and Econometrics Department of Product and Process Quality Management Department of Environment and Safety Management

COURSES

The Faculty runs courses in three disciplines: MANAGEMENT and MARKETING with Honours in:

- Management and industrial marketing
- Marketing management
- Human resources management
- Finance and marketing
- Production system management
- Design and restructuring of industrial companies
- Public sector management
- Econometrics and computer science
- Quality and technology management
- Environmentally friendly process management
- Environmental management
- Organization and safety management

PRODUCTION MANAGEMENT and PRODUCTION ENGINEERING with Honours in:

- Innovation management
- Human resources management

ORGANISATION AND MANAGEMENT

- Company resources management
- Logistics systems in company
- Industrial systems management
- Supporting systems in environmental management
- Operation and production management
- Computer science in company
- **Ouality** engineering
- Environmental management systems
- Safety management systems

SOCIOLOGY with Honours in:

- social engineering

Full-time and part-time undergraduate studies offer Honours in

- company management
- social engineering

The Faculty also offers post MSc courses in:

- Management and Marketing in Company
- Management and Administration in Health Service
- Management in Education and Enterprise
- Project management in company
- Company management
- Human resources management, Enterprise and Vocational Councelling
- Public relations
- Computer systems in management
- Quality management in company



universities:

Staff members of the Faculty are involved in SOCRATES-

FRASMUS projects in co-operation with the following

COOPERATION

- Fachhochschule Bielefeld, Fachhochschule Deggendorf, internationals Hochschulinstitut Zittau (Germany)
- Ecole des Mines de Saint -Etienne (France)
- Instituto Superior de Linguas e Administracao (Portugal)
- University of Abertay, Dundee (Scotland).
- University of Patras (Greece), and in other fields they co-operate with:
- Ecole des Mines de Nancy,
- Kaunas University of Technology (Lithuania),
- Technical University of Lvov (Ukraine), SB Ostrava (Czech Republic).

THE FACULTY OF

RESEARCH WORK

Research work is focused on the following fields:

- development of methods and techniques for strategic management,
- cultural obstacles and opportunities to transfer modern concepts of management,
- human resources management.
- theory of human resources marketing,
- pay relations in companies,
- job market and unemployment problems on regional scale,
- design and technical planning of production systems, including cleaner production technologies,
- logistics of production processes,
- quality and technology management,
- management of the operation of technical systems,
- acoustic hazards in environment.
- work environment engineering (Human engineering systems)
- statistical methods for economic research.
- modelling and forecasting of economic processes and phenomena,

ORGANISATION AND MANAGEMENT

- Integrated Management Systems: quality, environment, technology, safety,
- Environmetally friendly process management.

The Faculty Board is entitled to award the Ph.D. degree in economic sciences in the field of management science.

ACHIEVEMENTS

In a short period of its operation the Faculty has been a success, the most important achievements including:



- successful analyses of the job market in industrial areas in the period of economic transition (monographic publications)
- participation in the joint Polish-German Lithuanian research project on European integration processes includ ing value systems and pro-integration attitude (monographic publication).

The Faculty has founded together with five partners the Centre of Excellence entitled. Integrated Management: Environment-Safety-Quality-Technology.



THE SILESIAN UNIVERSITY OF TECHNOLOGY

OTHER UNITS

ENGINEERING EDUCATION CENTRE

The Silesian University of Technology started its activity in Rybnik in 1962 and also in that year the Stationary - Extra-Mural Study Centre was founded there. Having undergone several transformations, it now works under the new name as a supporting unit. The Centre does not employ its own academic staff. Teaching is performed by the academics of the faculties represented in the Centre. i.e. The Faculty of Civil Engineering, the Faculty of Mining and Geology, the Faculty of Energy and Environmental Engineering, the Faculty of Mechanical Engineering and the Faculty of Organisation and Management.

The Engineering Education Centre offers full-time and part-time BSc courses in the following engineering disciplines: (full-time studies at the Faculty of Automatic Control, Electronics

and Computer Science)

AUTOMATIC CONTROL

CIVIL ENGINEERING

ELECTRICAL ENGINEERING

MINING AND GEOLOGY **COMPUTER SCIENCE**

ORGANIZATION AND MANAGEMENT

(full-time and part-time studies at the Faculty of Civil Engineering) ELECTRONICS AND TELECOMMUNICATION (full-time studies at the Faculty of Automatic Control, Electronics and Computer Science) (full-time and part-time studies at the Faculty of Electrical

Engineering)

- (part-time studies at the faculty of Mining and Geology)
- (full-time studies at the Faculty of Automatic Control, Electronics and Computer Science)

ENVIRONMENT PROTECTION AND ENGINEERING (full-time studies at the Faculty of Environment Protection and Engineering)

MECHANICS AND MACHINE DESIGN (full-time studies at the Faculty of Mechanical Engineering)

(full-time and part-time studies at the Faculty of Organization and Management)

> Within the above mentioned disciplines unique courses are offered.

> There are also part-time supplementary MSc courses in Rybnik:

Civil Engineering with Honours in:

- Technology and management Mining and Geology with Honours in:

- Organisation and economics of mining. Management and Marketing with Honours in: - Company management.

FOREIGN LANGUAGES **TEACHING CENTRE**

Simultaneously with the foundation of the Silesian University of Technology, a team of lecturers of English and Russian language was opened, and in 1946 both French and German languages were added. In 1962, pursuant to the decree of the Ministry of Higher Education the teaching unit named Foreign Languages Teaching Centre was founded. After having obtained the status of an independent unit, the Centre started to expand its teaching aids, including modern equipment and a well-stocked library. The Centre runs classes in English, German, Russian, Italian and Spanish at all levels as well as Polish classes for foreign students. The teaching is carried out for the students of all faculties at full-time, part-time and postgraduate courses.



The Centre also runs courses preparing fo internationally recognized exams such as:

> English: FCE, CAE, CPE German: ZD,ZMP,ZO French: D.E.L.F. (A1-A6), and Paris Chamber of Industry and Trade exam Russian

The Centre co-operates with other institutions promoting foreign languages teaching and the knowledge of different countries. A great part of the achievements of th Centre includes both interpretations translations for different conferences a university, and also during various meet and talks with foreign partners translations of the papers of emic staff.

SPORTS CENTRE





In December 1992, following the take-over of the sports facilities at Akademicka Street from the town authorities, the Sports Centre was established. It continues the activities of its predecessor, the Physical Training Centre, including: Physical training and sport education classes in accordance with the syllabus adopted for universities, Periodic physical adequacy check-ups of students, Training of students and organising the academic championships for different sport disciplines, Sport and recreation activities for students

Students take obligatory physical training classes in their first, second and third year. There is also a possibility to join numerous sport clubs.

The Sports Centre manages the following sports facilities:

- Sports hall (OSiR)
- Small judo hall (OSiR) for judo, karate, aerobics,
- New sports hall,
- "TAFLA" ice-skating rink,
- XX anniversary stadium,
- Gym,
- Tennis courts.

Other facilities include two hotels situated in the sports halls, weights rooms, saunas and a solarium.

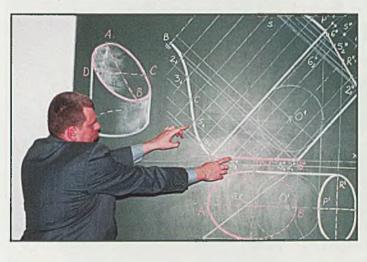
Silesian University of Technology has won the second place in the Championships of Polish Technical Universities.

GEOMETRY AND ENGINEERING GRAPHICS CENTRE

The Department of Descriptive Geometry worked for several years within the Faculty of Civil Engineering. Once the Faculty of Mathematics and Physics had been created, the Centre was incorporated into it. Since 1995 it has been working as an independent interfaculty unit under the present name.

The Centre runs classes for about 2800 students from seven faculties, for various courses and types of studies, teaching the subjects connected with the theory and practice of geometrical representations, technology of education and computer graphics.

The Educational Audio – Visual Laboratory and Educational Computer Laboratory, supports teaching. Additionally, open courses at different levels in AUTOCAD are run by "GRAFIKOM"



scientific conference: "Geometry and Computer", which is held every two years. The results of research are published in among others the Faciles of the Silesian University of Technology, edited by the Centre.

In 1994 the Polish Association of Geometry and Engineering Graphics with its seat at the Centre was founded which publishes the Association Bulletin.

Training Centre, which is authorised by AUTODESK.

Research activity of the Centre is focused on the creation of new representation techniques and their applications in engineering practice and methodology.

The research and teaching staff actively participate in a few annual foreign conferences. The Centre has been the organiser of Polish seminar on teaching geometry and engineering graphics and international

CENTRAL LIBRARY

The Central Library of the Silesian University of Technology of Gliwice, together with the two subsidiaries in Katowice and Rybnik, make up together a unified library and information system for the university and a link in the national research data system, as well as a part of the national library network.

It also performs the function of a scientific library open to general public.

The Library and the two subsidiaries have more than 860 000 volumes and inventory units of scientific and technical literature. Consequently, it is the biggest collection of technical books in





Upper Silesia.

Apart from the Central Library, there are 64 specialised libraries operating in the institutes, departments and interfaculty centres, comprising totally 250 000.

> Since 1994 the Central Library of the Silesian University of Technology has introduced complex automation. At the moment, the Library uses the computer library system working in the UNIX network.

PUBLISHERS OF THE SILESIAN UNIVERSITY OF TECHNOLOGY

In 1961 a publishing unit was started whose aim was to propagate research and educational achievements of the University staff.

Since 1969 the modest section transformed into Publishing Department of the University cooperating with the Committee of Publishing Houses and editor's offices of all departments. Professional language and technical editors were employed. They were to take care of proper language and graphical form of publications. In 1990 the Publishing Department was re-named into the Publishing House and has existed in that from up till now.



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Nowadays about 125 publications (about 17000 sheets) are edited annually, which makes our Publishing House one of the leading university publishers in the country.

Among books published here there are handbooks, scripts, monographics popularized scientific papers that are attract most of readers' attention.

The Publishing House of our University takes part in all significant book fairs both in Poland and abroad. In the course of all these years it has been often awarded for its editorial achievements, acknowledged both in Poland and abroad. It has become the University's token of publishing achievements.

COMPUTER CENTRE

The Computer Centre was established in 1993. It replaced the Centre for Electronic Analytic Techniques. Its main activity is focused on development of the University computer network as well as University information systems, maintenance of informatics infrastructure at the University and supervising informatics projects carried out within the University.

All University units and student hostels

are connected to the campus network. The WWW server (6000 user accounts) and the network-computational server are being developed



On behalf of the University the Computer Centre is responsible for extension and operation of the Silesian Computer Network (SASK) which other universities, academic centres and research and development institutes of Upper Silesia, the institutes of the Polish Academy of Sciences are connected to. Through the network NAS and POL-34

there is a link with other academic centres in Poland as well as abroad.

RESEARCH CENTRE FOR TEACHING TECHNIQUES

The Research Centre for Teaching Techniques is an interfaculty unit created in 1991 after the Centre for Pedagogical Improvement and the Centre for New Teaching Techniques had been combined together to improve teaching and technical service for the University.

The objectives involve the preparation of young academic teachers for the work with students, assistance in the acquisition and arrangement of teaching aids. These activities are supported by the research into the factors contributing to the efficiency of teaching and the dissemination of the results in publications such as reports and conference papers.

The Centre runs the Facultative Teacher Training College as well, which gives to the students of all the faculties an opportunity to obtain pedagogical qualifications. For the Faculties, the Centre offers classes in psychological and pedagogical subjects. The Centre also leads upgrading qualification courses for uncertified teachers of engineering subjects in secondary schools. The Centre co-operates with technical universities, the Regional Centre of Methodology in Katowice and secondary schools in our region.

The Centre is equipped with a pedagogical library. Additionally, it subscribes to pedagogical magazines, collects video materials and computer programs and other modern teaching aids.



CAREER GUIDANCE AND STUDENT PROMOTION CENTRE

The Centre was founded on October 1, 1997, pursuant to the agreement signed between the Silesian University of Technology and District Employment Office in Katowice. The Centre has been established to assist students and graduates in their choice of future career opportunities. The Centre is responsible for the following activities:

- Looking for job vacancies and offers addressed to future technical university graduates by establishing contacts with the prospective home and foreign employers,
- Making contacts, arranging interviews and assisting students in the identification of skills and capabilities required for certain professions,
- Preparing students for their first contact with employers,
- Promotion of the graduates of different faculties to prospective employers, which facilitates the selection of suitable candidates,
- Collecting information on professional development courses, language courses, scholarships, grants and post-MSc studies available in Poland and abroad,

Arranging meetings with home and foreign employers to create the opportunities of the presentation of companies and the requirements that their future employees have to meet.



The Centre collaborates with the University authorities, representatives of the Faculties, student organisations, district and regional employment offices, social organisations, economic entities, as well as Polish and foreign companies that employ graduates of the Silesian Technical University.

STUDENT ORGANISATIONS

There are many student organisations active at the Silesian University of Technology, including the Students Self-Government, which is the only representative body of all the students, promoting culture, tourism and science. Subsidised by the University, the Student Self-Government has financial means for the needs of clubs and student organisations.

The Independent Students' Association and the Polish Students' Association spur the social involvement of students and their participation in cultural and tourist activities.

The Associations of Students SILESIA B.E.S.T., I.A.S.T.E. program and the Association of Academic Youth Gliwice – Zabrze AEGEE act as agencies establishing contacts between students and employers abroad. Thanks to these organisations, it is possible for students to learn about employment prospects and industrial placement opportunities all over the world.

Sports activity of the University is co-ordinated by the Academic Sports Union (AZS) which comprises at the moment 912 members in various sections of popular sports. Almost 80 sportsmen of the AZS have been honoured by being chosen for the Polish National Team.

Tourism fans are the members of the Silesian Yacht Club, "Watra" Tourist Club and "Harnasie" Student Club of Mountain Guides.



The cultural organisations representing the University abroad and winning numerous awards and distinctions are also very active. These are: Academic Choir of the Silesian University of Technology, Academic Music Band and Academic Folk Ensemble "Dabrowiacy". The Music Band "Małżenstwo z Rozsądku" (Sensible Marriage) has joined them recently.











The news about University cultural events and student life is spread by the Centre of Student Radio CENTRUM, the Association of Press Journalist Club and Student Club of Photography and Film.

Student scientific activity is promoted by research clubs founded at the Faculties of the Silesian University of Technology.

"Spirala", "Program", "Kropka" and "Wahadelko" are active clubs where students have their cultural and entertainment meetings.

ALUMNI ASSOCIATION

The origin of the Alumni Association goes back to 1956. The Association procures graduates corporate body together with physical persons united by the main goal defined by the Statute of Association.

The main objective of the Alumni Association is to unite all graduates of the Silesian University of Technology, by sustaining the links between them and University authorities. systematic co-operation in technical sciences, teaching, professional training and supporting fresh university graduates entering their professional careers. The principal goal of the Alumni Association is creation of our "Alma Mater" tradition. Nowadays the number of ordinary members amounts to over 12 thousand people including 43 honourable members. The Association has 13 faculty sections at all the Faculties and one Club having the rights of such a section.





THE SILESIAN UNIVERSITY OF TECHNOLOGY

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Dean prof. dr hab. inż. Andrzej Karbownik

LOCATION MAP MAP OF THE UNIVERSITY CAMPUS



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OTHER UNITS OF THE SILESIAN UNIVERSITY 79 OF TECHNOLOGY

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INFORMATION

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