



MEMORANDUM

Date: 7/22/2004
To: Dr. Alan Sweedler, Assistant Vice President for International Programs
From: Janusz Supernak, College of Engineering, International Programs Coordinator J.S.
CC: Dr. David Hayhurst, Dean, College of Engineering
Dr. Gordon Lee, Associate Dean, College of Engineering
Subject: Report on my trip to Poland and The Netherlands

This memo summarizes the results of my recent (late May 2004) trip to Europe intended to develop tangible opportunities for Engineering students to study abroad. This trip was supported by a \$3,000 grant received from the Provost for the 2003-2004 academic year.

My proposal was titled "Establishing a Meaningful Study Experience for Engineering Students", and I believe the goal of my trip was accomplished. As I indicated, I visited 3 leading universities in Europe:

- Delft University of Technology, The Netherlands
- AGH University and Technology, Krakow, Poland
- Technical University of Warsaw, Poland

The results of my trip can be summarized as follows:

- AGH UST Krakow emerges as a primary collaboration partner, eager to organize a summer session for our Engineering students.
- Delft University of Technology continues to be a prestigious partner for collaboration, ready to receive up to 5 of our students annually. A few of our students applied recently for a semester at Delft. The main accomplishment of my recent trip was to find a person at Delft (Mr. Rob Knook), who wants to personally assist our students with logistics and housing, a difficult problem at Delft. Mr. Knook intends to come to SDSU for an internship; therefore his interest to help our students is genuine.
- Warsaw Technical University does not appear as a suitable site for our students at this time. However, research collaboration is already advanced in the areas of Transportation and Energy Diagnostics. One student from WTU completed MS under my supervision while at SDSU (A. Suwara); a promising doctoral student continues to apply for a Fulbright grant to work with me at SDSU (T. Dybicz).

A more detailed description of my activities in Krakow is as follows:

- I met with the President of AGH IST Krakow, Dr. Tadeusiewicz, who confirmed his strong commitment to organize a Summer Session for our students. He signed the extension agreement for the collaboration between SDSU and AGH IST Krakow. The original of that document is submitted.
- I worked with Dr. J. Golas, Director of the International School of Science and Technology (affiliated with AGH IST) on a detailed proposal of the Summer Session 2005 for SDSU's Engineering students. All costs and logistical details are spelled out in the new proposal (attached).
- Following my trip to Krakow, Dr. Golas came to SDSU in late June and made a presentation about the Summer Session 2005 in Krakow (see attached); several of our students signed up for it already.
- Dr. Golas met with Dean David Hayhurst to discuss details for the Summer Session 2005 in Krakow. The College will offer E 430, Engineering Economy, in Krakow as a part of its regular summer session offering.
- As IP Coordinator, I will work closely with Dean Hayhurst and Associate Dean Lee to timely obtain the special fee approval from the University to make the Summer Session 2005 in Krakow a reality and a success.

**COOPERATIVE AGREEMENT
BY AND BETWEEN**

**SAN DIEGO STATE UNIVERSITY
San Diego, California, U.S.A.**

AND

**AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY
Cracow, Poland**

The provisions recorded below establish the principles and conditions by which San Diego State University (SDSU) and AGH University of Science and Technology (AGH-UST) agree to cooperate in academic exchanges, program development and research. Such a cooperative agreement will be realized as established in the following clauses:

I. Legal framework of both universities

AGH-UST is empowered by its bylaws to enter into cooperative agreements of this nature with other universities in regard to the subjects related to the achievement of its goals and objectives, as stated in its bylaws, in order to further contribute to the achievement of such goals and objectives.

SDSU is one of the 22 universities of the California State University system. Operating under the authority of Title 5 of the California Administrative Code, the president of the campus may initiate agreements with foreign institutions of higher education to enhance international good will and understanding through programs of academic exchange.

II. SDSU and AGH-UST common interests and objectives

By reason of their very essence as universities, SDSU and AGH-UST share interests and objectives in academic exchange and scientific research matters. Both institutions are interested in establishing academic cooperation agreements with institutions of similar nature in order to assist in the achievement of their goals and objectives in such matters.

III. Purpose of the Agreement

SDSU and AGH-UST jointly agree to subscribe to a cooperative agreement in order to promote the following activities between both universities:

- A) Exchange of teaching and research personnel.
- B) Cooperative development of courses and academic programs.
- C) Development of joint scientific and/or technological research projects.
- D) Any other activity of mutual interest regarding academic or scientific and technological research matters.

IV. Execution of the Agreement

The specific activities to be carried out under this agreement will be stated in corresponding specific sub-agreements. Such specific sub-agreements, once approved by both parties, will be attached as annexes to this agreement.

V. Specific Sub-Agreements

The Specific sub-agreements between both universities will specify their objectives, conditions and ways of execution, financial support, term of validity, and administrative responsibility within each institution.

VI. Term and Termination

This agreement constitutes an extension of the original agreement signed by both parties in 1999 for a period of five (5) years. This extension agreement can be renewed for additional five-year periods by mutual consent of the parties to the agreement. Both parties reserve the right to terminate this agreement upon written notice given six months prior to the termination date becoming effective.

VII. Coordination and Follow-up

Administration of the Cooperative Agreement shall be the responsibility of: Assistant Vice President for International Programs at SDSU and Deputy Rector for International Affairs and Director of International School of Technology at the AGH-UST.

Any Additions, changes, or deletions must be approved by these official representatives of both universities. All notices shall be in writing and shall be directed to these individual as follows:

TO SDSU:
Assistant Vice President for International Programs
Office of International Programs
San Diego State University
5500 Campanile Drive
San Diego, CA 92182-1644,U.S.A

*Agreement by and between
San Diego State University
and AGH University of Science and Technology
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TO AGH-UST
Deputy Rector for International Affairs and Director of the International School of
Technology at the AGH-UST
AGH University of Science and Technology
Al. Mickiewicza 30,
30-059 Cracow, Poland

APPROVED FOR SAN DIEGO STATE UNIVERSITY BY

.....
Stephen L. Weber, President

.....
Date

APPROVED FOR AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY BY:

.....
Ryszard Tadeusiewicz, Rector

7.06.2004
.....
Date



PROPOSED SUMMER SESSION 2005 AT THE AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY IN KRAKOW, POLAND

In fulfillment of the Cooperative Agreement Between San Diego State University, California, U.S.A. and AGH University of Science and Technology, Krakow, Poland, it is proposed that SDSU Engineering students will come to the International School of Technology at the AGH-UST for a Summer Session. Both universities are vitally interested in exchange of their students. The planned Summer Session in Krakow would be an exciting, new experience for SDSU's Engineering students. It would allow them to enhance their understanding of the world, develop valuable contacts and exchange ideas with other international students. The proposed format of the Summer Session 2005 in Krakow is based on the earlier experience gained when working on this idea during the 2003-2004 academic year.

The following arrangements are proposed for the Summer Session 2005 in Krakow.

Time frame

The timing of the Summer Session 2005 in Krakow will coincide with the first 6-week-long Summer Session at SDSU. This way SDSU students will have an opportunity to come back to San Diego in time for the second 6-week-long Summer Session at SDSU if they so chose. The exact time for the Summer session 2005 in Krakow will be determined once the Summer session schedule at SDSU is set.

The course

Summer session 2005 in Krakow will offer a single 3-unit, 45 hour Engineering course, ENG 430, Engineering Economy which is a popular elective for all Engineering students at SDSU. The course content and format will be identical to that of SDSU in order to avoid any problems with credit equivalence. Some other course menu may be considered in the consecutive editions of the Summer Session in Krakow.

The instructor

The instructor for ENG 430 will be Dr. Janusz Supernak who teaches this course at SDSU. In the last several years he has also taught a short 1-unit version of this course at AGH-UST Krakow for students affiliated with the International School of Technology there. The instruction will be in English. The instructor's salary will be provided by SDSU.

Student recruitment

Students will be selected by SDSU College of Engineering. The expected number of students will be between 15 and 30. Dr. Supernak will coordinate the recruitment effort. Students will need to submit their two recent photographs together with the approved application form.

**Summer Session
Location**

All lectures will be held at International School of Technology Building,
Czarnowiejska 30a/4 Street, Krakow, Poland

- Insurance** All foreigners visiting or studying in Poland have to be insured against consequences of accidents and costs of medical treatment. Insurance costs will be part of the tuition fees paid by the SDSU students. Upon arrival in Krakow, SDSU students will meet the designated insurance agent who will give them all the necessary information and hand the relevant insurance documents.
- Certificate of Completion** After completion of the courses SDSU students receive the Certificate of Completion of the E430 Course to be transferred into permanent records at SDSU.
- Accommodation** Students will be accommodated at the university dormitories (up to 2 students per room).
- Full Board** Students will be provided with 3 daily meals (breakfast, lunch and dinner) at the University Canteen as part of the session fee.
- Transportation** Transfer services from and to the airport will be provided for the group of students from SDSU. Also, convenient monthly passes for all public transportation modes will be issued for their unlimited use while in Krakow.
- Library** SDSU students will have library privileges with access to books at the International School of Technology. However, the students will need to bring with them a copy of the textbook designated by the instructor for Eng 430.
- Sightseeing/Cultural Tours** Four tours will be organized for the SDSU students to enhance their stay in Poland by a meaningful cultural, historical and social experience. The following sights will be visited by the SDSU students:
- Wieliczka Salt Mine,
 - the former concentration camp in Oświęcim (Auschwitz) and Brzezinka (Birkenau),
 - Krakow sightseeing with guide (The Royal Route, Wawel Castle, Gothic Cathedral, etc.),
 - Jagiellonian University Museum especially with “common room and refectory for the professors living in Collegium Maius until the end of the 18th century”.
 - other attractions.
- Social Contacts** SDSU students will live in dorms, close to Polish and other international students. They will have ample opportunity to interact with their international peers for mutual benefit. Krakow has many students clubs, jazz clubs etc. where students can enjoy good music and interact with others.
- Application Deadline** In order for IST promptly prepare dormitory rooms to SDSU students, the final application deadline is set for March 15, 2005.

COSTS

The costs of Summer Session 2005 in Krakow are calculated in such a way as to make them attractive to the SDSU students.

The SDSU students will need to pay an extended fee that would need to be approved ahead of time by the academic authorities at SDSU. This special, extended fee would include 2 major components:

- a. regular Summer Session fee (identical to the fee charged for a 3-unit summer course at SDSU),

- b. an extra fee related to the students' stay in Krakow. This fee will not exceed \$ 1160 per 6 weeks per student (approximately \$29/day per student). This extra fee will specifically include all the previously listed items associated with the AGH-UST offer:
 - transport of the group from the airport to the Campus and back,
 - obligatory insurance against accidents and the costs of eventual medical treatment (following an accident) while in the Polish Republic,
 - accommodation in University dorms,
 - full board (breakfast, lunch and dinner),
 - public transportation (1 monthly pass for all buses and trams (regular) plus two 72 hours tickets),
 - sightseeing tours,
 - other costs of AGH-UST.

- c. An additional cost for SDSU students will be airfare. Students will be responsible individually for it. SDSU will attempt to find a group travel arrangement for their air travel to reduce the cost.

EXPECTED BENEFITS

The proposed Summer Session 2005 in Krakow is seen as clearly beneficial for both Universities. The primary benefit will be productive use of the summer time for learning. The American students could also have closer contacts with Polish and European culture, people and our educational system. The University will benefit from better understanding among young people and establishing closer contacts between students and teaching personnel.

APPROVED FOR INTERNATIONAL SCHOOL OF TECHNOLOGY AT THE AGH-UST BY:

.....
Janusz Gołaś, Ph.D., Director

.....
Date

APPROVED FOR COLLEGE OF ENGINEERING, SDSU BY:

.....
David T. Hayhurst, Ph.D., Dean

.....
Date

APPENDIX 1

BACKGROUND INFORMATION ABOUT KRAKOW AND AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY

KRAKOW

Krakow is a unique city of more than a thousand years history and center of most of its cultural heritage from the 11th century right down to the present day. At this moment Krakow with 30% of the population engaged in higher and professional education is the venue of choice for a great number of cultural and entertaining events and festivals.

The origins of Krakow date back to the early Middle Ages. In the 12th century it became the capital of the Kingdom of Poland and an important commercial center. Since its beginning Krakow has been the scene of many important historical, cultural and political events. When the Jagiellonian University was founded in 1364 by the king Kazimir the Great (Kazimierz Wielki), Krakow has been one of the most important academic centers in Poland. During the early part of the 17th century the capital of Poland was moved to Warsaw.

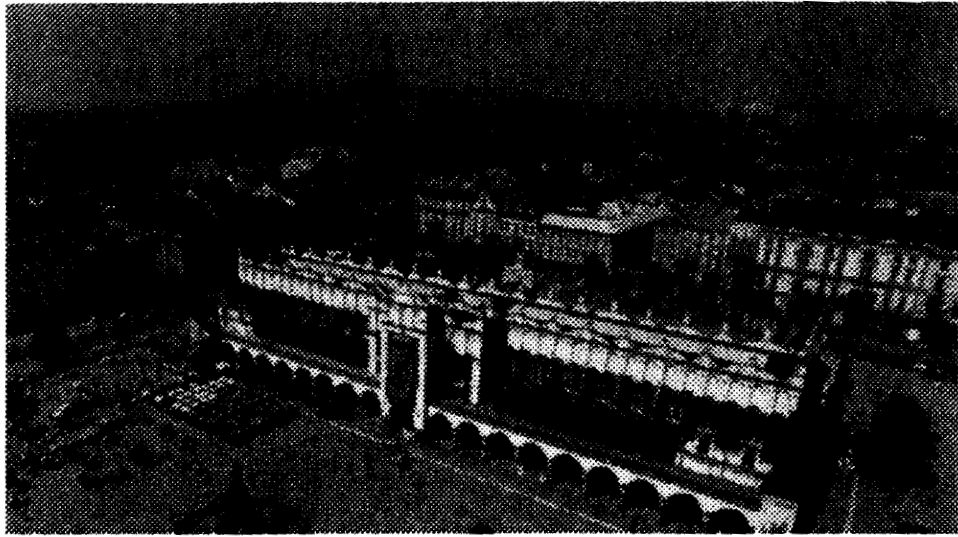
Krakow consists of an inner town and several suburbs. The city contains a large number of historic buildings. The most notable is the Royal Castle and Gothic Cathedral on Wawel Hill.



Wawel Royal Castle

It was long site of coronation ceremonies of the kings of Poland and is the burial place of men famous in Polish history. Other notable buildings are the Church of Saint Mary, Gothic edifice dating from 1223, Collegium Maius, the oldest building of Jagiellonian University, ancient city walls and many others. Krakow's old center was included by the UNESCO World Heritage Committee on the list of the most precious cultural monuments, covers an area of 72 hectares and has 55 pieces of architecture of the highest class.

Among the important educational institutions in the city are the Jagiellonian University (1364), AGH University of Science and Technology (1919), Krakow Technical University (1945), scientific institutes, the National Art Museum and Stary Theater.



Main Market Square.

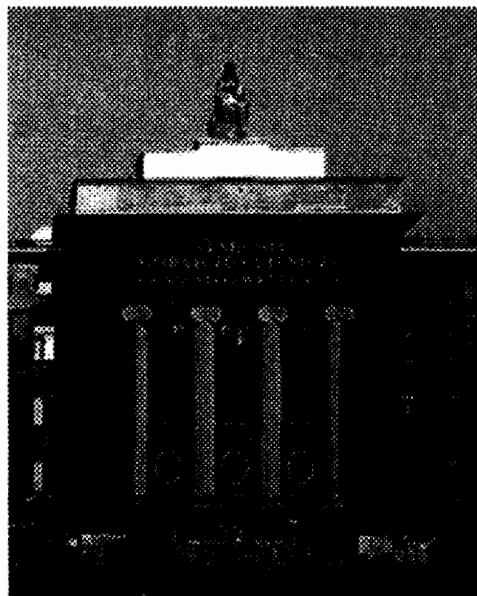
Our town has a unique atmosphere as a significant scientific and artistic center. All sites in the old city area are easily reachable. Tourists can visit museums, galleries, monuments, theaters, cinemas, coffeehouses and restaurants.

Today Krakow is the city of tradition mixed with novelties. This city is now the fourth largest industrial center and one of the most important investment areas in Poland.

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY (AGH-UST)

The AGH University of Science and Technology is the second largest and one of the oldest Polish technical universities. It was founded in 1919 as the Academy of Mining, which had to provide professional staff for Polish mining industry. Coal mines of Silesia are situated some 70 km west of Krakow.

The Academy underwent a profound and rapid growth in the 20s and after the World War II. At present it consists of 15 faculties which educate about 29,000 students in the fields of mining, metallurgy, electrical engineering, automatics, mechanical engineering and robotics, geology, geophysics, mining surveying, environmental engineering, materials science, drilling and petroleum engineering, management, ergochemistry and technical physics.



INTERNATIONAL SCHOOL OF TECHNOLOGY (IST)

The AGH University of Science and Technology - the Alma Mater of IST - since its very foundation recognized the importance and benefits of being involved in international education and research. For many years we have been observing a growing interest of foreign students in studying at the AGH-UST. This fact is a consequence of the high renown of the University in the world scientific communities and the changes which have been occurring lately in Europe. Particularly the perspective of Poland joining soon the European Union contributed largely to the already excellent relations the University had always with numerous European technical universities, both in the field of research and in the domain of teaching.

Since many years the AGH-UST has been accepting students from abroad. The International School of Technology offers a number of undergraduate courses, which are taught in English. The teaching staff also includes many eminent specialists from technical universities that have been collaborating with the AGH University of Science and Technology for many years. A special place in this collaboration may be attributed to the Illinois Institute of Technology - a technical university that offers all undergraduates of the IST a possibility of pursuing the studies as postgraduate students.

The studies curricula consist of core courses beginning with a solid foundation in science: mathematics, physics, chemistry, computer science, basics of engineering, and followed by more specialization-oriented courses which differ from faculty to faculty. A wide selection of optional courses for juniors and seniors and for the postgraduates is also available. Students have access to laboratories, research facilities and computer rooms. After the first two years they may become involved in the research activities of various faculties or join the interfaculty scientific teams.

The following courses could potentially be offered in English for SDSU (and other foreign) students:

Available courses: Advanced Ceramics Design, Advanced Chemical Analysis, Advanced Robotics, Air Pollution, Analytical Methods, Applied Geophysics, Applied Mechanics-Basic Course I, II, III, Applied Mineralogy and Phase Analysis, Automation of Industrial Process, Basics Electrical and Electronics Engineering Biology, Basics Mechanics, Biotechnology, CAD/CAM (Descriptive Geometry and Computer Graphics), Computer Aided Engineering, Computer Application in Materials Science, Computer Modelling and GIS, Computer Science I, II, Contemporary Philosophy, Control Engineering, Diffraction and Scattering Methods, Digital Control, Drives and Actuators, Dynamics of Systems, Economics, Electrical Engineering, Electron Microscopy, Electronics with Microprocessors, **Engineering Economics**, Environmental Deterioration of Materials, Environmental Geochemistry, Environmental Geotechniques, Environmental Engineering, Environmental Monitoring Assessment, Environmental Technology and Undergraduate Project 1, Fluid Mechanics, Fundamentals of Composites, Fundamentals of Crystalline Solids, General Chemistry, Geochemical Cycles, Geology, Geomorphology and Quaternary Geology, Geothermodynamics, Hazardous Waste Management, History of Philosophy, Hydrogeology, Introduction to Environmental Engineering, Introduction to Ground Water Modelling, Introduction to Management, Introduction to Materials Science, Introduction to Statistics, Machine Elements Design

I, Machine Elements Design II, Manufacturing Process and Equipment Controllers and Robots, Mass Transfer, Material and Energy Balance, Materials Engineering, Materials Science I, II, Mathematics, Mechanical Properties of Materials, Mechanical Technologies and Machine Elements, Mechanical Testing of Materials, Mechatronics, Metallography, Metrology with Signal Processing, Numerical Methods and Programming, Ore Petrology, Organic Chemistry, Phase Transformations, Physical Chemistry, Physics, Political Sociology, Processing of Materials I, Processing of Materials II, Processing of Materials III, Sensors and Artificial Intelligence, Software Engineering, Soil Science, Solid Waste Engineering, Standards and Quality Control, Strength of Materials, Surface Analysis, Surface Aquatic Systems, Theory of Machines and Mechanism, Thermodynamics, Transport Phenomena, Water and Wastewater Engineering

Detailed hours of lectures and classes/laboratories of particular subjects are listed in the attached brochure.