University of Michigan
College of Engineering

Dr. Anatole S. and Pamela D. Dekaban Fund

2010-11 Annual Report
(July 1, 2010 – June 30, 2011)

Prepared by
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Warsaw University of Technology
view of the inner courtyard of the main building
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Executive Summary

The Dekaban Fund was initiated with the gift of Dr. Anatole S. and Mrs. Pamela D. Dekaban in 1993. The purpose of the Dekaban Program is to encourage the exchange of technical knowledge between advanced academic professionals in various fields of engineering at Warsaw University of Technology (WUT) in Poland and the University of Michigan (U-M) College of Engineering (CoE) in Ann Arbor, Michigan.

Sponsored fellowships enable faculty from WUT to come to the University of Michigan and initiate research cooperation with U-M faculty, gain experience in their respective fields, and promote future joint research efforts. This is the primary activity of the program. One Dekaban Fellow visited U-M during fiscal year 2011 (July 1, 2010 - June 30, 2011) and arrangements were made for one new fellow to join U-M during FY12. In 18 years of the program’s existence, 26 Dekaban Fellows have visited various departments at U-M’s College of Engineering.

Updated information about the program is available on the Dekaban Fund website at http://dekaban.engin.umich.edu/. The fund remains fiscally healthy.
2010-2011 Activities

World Convention at WUT

Warsaw University of Technology hosted the World Congress of Polish Engineers on September 8-10, 2010. The convention was an initiative to bring engineers together from many parts of the world, compare experiences, and aid engineering in Poland as it transitions to meet the country’s needs in its new economic model. The coordinator of the Dekaban Program at U-M was invited to present a keynote lecture on models of academic collaboration between the universities in Poland and the U.S., with emphasis on the Dekaban model. This lecture was presented in a session on international collaboration among universities and business organizations.

System transformation in Poland has created new conditions and opened new cooperation opportunities for Polish engineering communities in Poland and abroad. Calls for the world-scale integration of engineering communities, as well as dissemination, promotion and application of engineering achievements in various fields of science and technology were an incentive to organize the World Congress of Polish Engineers. That idea was the grounds for signing an agreement on World Congress organization between Professor Włodzimierz Kurnik, rector of Warsaw University of Technology and Mr. Andrzej Drzewiecki, representing the Council of Polish Engineers in North America, and then between Professor Włodzimierz Kurnik and Ms. Ewa Mańkiewicz-Cudny, president of the Federation of Engineering Associations.

The World Congress of Polish Engineers is the continuation of engineering seminars, “Poles Together,” organized by the Federation of Engineering Associations since 1996, and many other initiatives by organizations of the Polish community abroad from Europe and North America. The World Congress was a forum for the presentation of most important scientific and economic issues of interest to congress participants and an opportunity to establish contacts and cooperation, especially in the realm of innovation and new technologies.

The World Congress aimed to define the possibilities of economic acceleration in Poland through:

- establishing the cooperation strategy for Polish engineering communities in Poland and abroad;
- transferring and implementing modern technologies developed directly or indirectly by Polish engineers working in various parts of the world;
- creating opportunities to exchange experiences in the field of educating and retraining engineers in line with practice and requirements of the global economy, including education in English, especially at graduate and post-graduate levels;
- initiating or executing wide economic cooperation by Polish engineering communities abroad;
- popularizing Polish technological solutions, Polish products and services all over the world;
• creating international research teams and establishing close ties among Polish and foreign universities, as well as other academic, research and teaching institutions in the field of experiences exchange, joint scientific and research projects, exchange of lecturers and research students;
• establishing a strategy toward strengthening or creating a Polish scientific and technological lobby abroad as well as increasing the number of Polish professors and PhD students in world top universities; and
• exploiting the knowledge, experience and contacts of Polish engineers abroad, both professionally active and nearing retirement, for the needs of Polish universities, research institutions and industry.

The World Congress was hosted by the rector of Warsaw University of Technology. While at the World Congress, Professor Michalowski, Dekaban program coordinator, met with Rector Wlodzimierz Kurnik and Vice-Rector Tadeusz Kulik to talk about the Dekaban Program activities.

At the time of the World Congress at Warsaw University of Technology, Warsaw also hosted the 37th International Conference on Solid Mechanics, where Prof. Michalowski presented a keynote lecture in the geomechanics session entitled, “Stress Corrosion Cracking and Relaxation of Deviatoric Stress After Dynamic Compaction of Sand.”
**Dekaban Fellow**

The 2010-11 Dekaban Fellow was Dr. Daria Tataj from the Business School of Warsaw University of Technology.

**Dr. Daria Tataj**

Dr. Daria Tataj joined the College of Engineering in September 2010 for a one-year visit as a Dekaban Fellow and visiting research scholar in the Department of Industrial and Operations Engineering. Dr. Tataj is an assistant professor at the WUT Business School, focusing on innovation, entrepreneurship and leadership.

At WUT, Dr. Tataj is involved with the European Union in an organization called the European Institute of Innovation and Technology, based in Budapest, Hungary. She is an executive governing board member with a mandate for entrepreneurship. Also, she is co-founder of the Diadem Foundation, which promotes leadership among women.

During her Dekaban Fellowship, Dr. Tataj worked under the supervision of Professor Larry Seiford and with faculty from the College of Engineering’s Center for Entrepreneurship. She worked with faculty to develop a proposal for the National Science Foundation, which consisted of an assessment framework for engineering education in terms of global outreach and impact. She was hosted also by the Zell-Lurie Institute and worked to understand how U-M fosters entrepreneurship and is building an entrepreneurship ecosystem.

Dr. Tataj reported that her time at the College of Engineering provided an inspiring environment to do intellectual work. She gained access to the newest research developments and was able to speak directly with scientists rather than wait for published works. The contacts Dr. Tataj developed while on campus made it possible for her to collaborate with U-M on a *Top 500 Innovators* project for the Polish Ministry of Education.

**Selection of Future Fellows**

Per the Dekaban Fund Endowment Agreement signed in 1993, funds may be used for exchanges of any of the following ranks of faculty in various fields of engineering at Warsaw University of Technology and the University of Michigan: junior faculty from WUT, senior faculty from WUT and/or senior faculty from U-M.

In June 2011, Dr. Gregory Dekaban stated that he appreciates the world has changed since the agreement was signed and that while he wants to remain true to his father’s wishes, he wants to be flexible as well. To this end, he welcomes communication regarding potential fellows and hopes candidates will be discussed with him before any decisions are made, so that if an exception is to be made, he will have been part of the decision making process.
WUT – U-M Interactions

In late May 2011, Dr. Pawel Krol paid a visit to the University of Michigan to meet with Dr. Ann Jeffers, assistant professor in the Department of Civil and Environmental Engineering, and Prof. R. Michalowski.

Dr. Krol is an assistant professor at Warsaw University of Technology and is a potential candidate for a Dekaban Fellowship in 2013. He was in Michigan on a two-month visit to Michigan State University. It was a good opportunity to bring him to Ann Arbor to discuss a possible technical collaboration with Prof. Jeffers.

Both Prof. Jeffers and Dr. Krol are conducting research on fire protection of engineering structures, multi-hazard load effects on structures, multi-physics simulation of fire-structure interaction, and fire-induced progressive collapse of structures.

Dr. Krol in front of the Robert H. Lurie Engineering Center at U-M’s College of Engineering
Other Activities

WUT Symposium in Washington, D.C.

In early April, 2011, Warsaw University of Technology organized the U.S.-Poland symposium on Engineering Education. The symposium took place on April 9 in the embassy of the Republic of Poland in Washington D.C. Professor R. Michalowski was invited to participate in the symposium, and to discuss the possibilities of educational exchange between the U.S. and Poland.

The symposium became a vehicle for Warsaw University of Technology alumni living in North America to meet. 2010-11 Dekaban Fellow Dr. Daria Tataj participated in the symposium also.

Meeting with Dr. Gregory Dekaban

Associate Executive Director, Ms. Lin R. Cargo, College of Engineering Office of Advancement and Dekaban Program Coordinator, Prof. Radoslaw Michalowski, met with Dr. Gregory Dekaban in London, Ontario on June 24, 2011. Dr. Dekaban continues his
father’s (and the Dekaban Program founder’s) tradition of research in medicine; he is a professor at the University of Western Ontario and co-director of the Bio-Therapeutics Research Group at the Robarts Research Institute. He has been on the faculty of the University of Western Ontario for 23 years. The discussion focused on future directions of the Dekaban Program in light of the changing environment in Poland and on the details of administering the Dekaban Fund, including the involvement of the Dekaban Fund Advisory Council.

It was agreed that Dr. Dekaban will meet with U-M CoE leadership and the Dekaban Program Committee from Warsaw University of Technology after election and subsequent installation of the new administration at WUT in October 2012. The meeting is to take place in Ann Arbor. It was determined also that the coordinator of the Dekaban Program at U-M would meet with the chair of the Dekaban Program Advisory Council in July 2011 to convey some of the outcome of the discussion.

Dr. Dekaban stated he wants to remain true to his father’s wishes, while being flexible as well. He welcomes communication and hopes candidates for Dekaban Fellows will be discussed with him before any decisions are made, so that if an exception is to be made, he will have been part of the decision making process.

Before the meeting concluded, Ms. Cargo presented Dr. Dekaban with a University of Michigan President’s Club memento.
Plans for 2011-2012

Dekaban Fellowship

Plans were made to invite Dr. Robert Mroczynski, an assistant professor in the WUT Institute of Microelectronics and Optoelectronics to be the 2011-12 Dekaban Fellow. Dr. Mroczynski obtained his PhD in 2008 from WUT; the title of his thesis was, “PECVD As the Method for Ultra-thin Silicon Oxynitride (SiOxNy) Layers Fabrication for Application in ULSI-CMOS Devices.”

An effort has been made to match Dr. Mroczynski’s research interests with those of the Electrical Engineering and Computer Science (EECS) Department. His fellowship is scheduled for October, 2011-April, 2012. During that time, Prof. Jerzy Kanicki of EECS will serve as his mentor and advisor.

Dr. Robert Mroczynski
Appendices

Appendix A

Dekaban Fund Advisory Council

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Dekaban Program Committee at Warsaw University of Technology

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Professor Maciej Jarosz
Professor Jerzy Kozak
Professor Wojciech Radomski
Professor Władyslaw Włosiński
Professor Piotr Wolański

Dekaban Program Coordinator at U-M College of Engineering

Professor Radoslaw L. Michalowski
Appendix B

Dekaban Fellow Profile

Name: Daria Tataj
2010-2011 Dekaban Fellow

Institution: University of Michigan, College of Engineering
Department of Industrial and Operations Engineering
(on leave from Warsaw University of Technology)

Title: Visiting Assistant Research Scientist

Address: 1205 Beal Avenue
Ann Arbor, MI 48109-2117

E-Mail: daria.tataj@gmail.com

Education: 1999 – MBA, Warsaw University of Technology
1997 – PhD, Polish Academy of Sciences
1993 – MA, Warsaw University of Technology

Research Interests: innovation and entrepreneurship, economic growth, and social welfare

Dekaban Fund Activity: Dekaban Fellow, September, 2010 – September, 2011; worked under the supervision of Prof. Larry Seiford and with faculty from the CoE’s Center for Entrepreneurship; worked with faculty to develop a proposal for the National Science Foundation, which consisted of an assessment framework for engineering education in terms of global outreach and impact; was hosted by the Zell-Lurie Institute and worked to understand how U-M fosters entrepreneurship and is building an entrepreneurship ecosystem
Appendix C

Dekaban Fund Endowment Agreement

The Dr. Anatole S. and Pamela D. Dekaban Fund

Establishment of the Fund

Anatole S. and Pamela D. Dekaban ("donors") hereby pledge and promise to give an initial gift of $100,000 to the Regents of the University of Michigan to establish an endowment fund for the benefit of the College of Engineering. It is the intent of the donors to make additional gifts to increase the principal amount of the fund to $500,000, including a gift of real property acceptable to the University's Board of Regents. The Fund is to be named for the donors, the Dr. Anatole S. and Pamela D. Dekaban Fund. Further, it is the intent of the donors that the Regents accept future gifts to enhance this fund.

Purpose of the Dekaban Fund

It is the wish and goal of the donors to encourage the exchange of technical knowledge between advanced academic professionals in various fields of engineering at the Warsaw University of Technology and the University of Michigan. To help provide support for such an exchange, the wish of the donors is that the annual distributions from the Fund, in accordance with the University of Michigan's endowment distribution policy, be made available at the direction of the Dean of the College of Engineering to be applied for such exchanges of faculty, as provided herein.

Exchange Program

At the discretion and control of the College of Engineering, said annual distributions from the Dekaban Fund may be used for exchanges of any of the following ranks of faculty, namely:

(a) Two junior faculty from Warsaw University of Technology (with adequate English) to the University of Michigan College of Engineering annually, but not concurrently, for four to five months each person;

(b) One or two senior faculty from Warsaw University of Technology to College of Engineering annually for two weeks;

(c) Two senior faculty from College of Engineering to Warsaw University of Technology annually, and concurrently or individually, each year for three weeks each;

(d) One senior College of Engineering faculty to Warsaw University of Technology for a sabbatical term with the College striving to use its best effort to achieve three such faculty sabbatical terms in the consecutive five years following the full funding of the Dekaban Fund at the level of $500,000 for the endowment principal sum.
Depending on the level of annual distribution, the number of visitors as described in (a), (b) or (c) above can be appropriately increased. If by the end of any fiscal year, not all available monies have been disbursed, then 50% of the remaining sum should be added to the principal of the fund and 50% prorated to the next fiscal year.

If in the future, the Dean of the College of Engineering and the Prorector of Warsaw University of Technology jointly determine that different numbers and categories of exchanges other than those listed under (a), (b), (c) and (d) would be more appropriate, such a change can be made through Addendum to the Agreement and by asking the donors or their designee for endorsement.

Implementation and Administration

The Dean of the College of Engineering hereby agrees to appoint a faculty committee to administer the application of the distributions for the purposes described herein; and, in consultation with Warsaw University of Technology Committee Chairman (ex-officio Prorector), to review applicants, nominees, and candidates for exchange; and recommend same for selection at the sole discretion and determination of the Dean of the College, consistent with the University of Michigan policies, practices, and procedures for selection and appointment of faculty.

Moreover, at the discretion of the Dean of the College of Engineering, University of Michigan faculty visiting the Warsaw University may be allocated a portion of the Dekaban Fund's annual distributions to make available to those attending lectures, seminars, and other presentations by University of Michigan faculty, books, periodicals and other information technology relevant to said presentations but not exceeding 5% of the annual distribution.

The Associate Dean for Graduate Studies and Research for the College, in charge of the international programs of the College, will be an ex officio member of the committee and be responsible for providing donors or their designated heirs and their Advisory Council (to be established by the donors) with an annual report of program activities and a brief financial statement. The donors or their designee will acknowledge in writing the receipt of the financial report.

Inauguration of Fund

Donors intend to give an additional $20,000 that will be fully expendable at the discretion of the Dean of the College of Engineering, and not intended to enlarge the principal of the Dekaban Endowment Fund, to enable the College of Engineering to inaugurate exchanges, if administratively feasible, beginning in the academic year, 1993-94. In such event, the Dean or his delegate of senior rank will travel to Warsaw University of Technology to inaugurate the program.
University of Michigan Regents Gifts Policy

It is understood by the Donors undersigned that in accordance with Regents' Bylaws Section 3.05, all gifts are accepted by the University subject to the general policy of the Board that the wishes of donors with respect to their gifts, shall be loyally observed so long as, in the opinion of the Board, such wishes do not conflict with the proper administration of the University under changes that may develop in the course of time.

Governing Law and Venue

It is further understood that any disputes relating to the construction, interpretation, or enforcement of this agreement shall be governed by the law of the State of Michigan and shall be heard, decided, and resolved in Michigan.

IN WITNESS WHEREOF, the donors and the University by its duly authorized officer, have caused this agreement to be executed on or as of the _______ day of ________ 1993.

s/ Anatole S. Dekaban, M.D., Ph.D.
Anatole S. Dekaban

s/ Pamela D. Dekaban
Pamela D. Dekaban

THE COLLEGE OF ENGINEERING
By Peter M. Banks, Its Dean

THE REGENTS OF THE UNIVERSITY OF MICHIGAN
By Gilbert R. Whitaker, Its Provost and Vice President for Academic Affairs