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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 overarching motivation for the Dekaban Program was to create opportunities for the exchange of technical knowledge between faculty members in various fields of engineering at the Warsaw University of Technology (WUT) in Poland and the University of Michigan (U-M) College of Engineering (CoE) in Ann Arbor, Michigan.

The primary mission of the Dekaban Fund is to encourage the exchange of technical knowledge between advanced academic professionals in various fields of engineering at WUT and U-M. This is facilitated, in part, by sponsorship of fellowships of junior faculty members from WUT to the U-M. In FY 2013-14, the College of Engineering hosted one Dekaban Fellow for twelve months and one senior visitor from WUT, who spent three months in Ann Arbor. The senior visitor was sponsored by a fellowship funded by WUT.

The year 2013 marked the twentieth anniversary of the Dekaban Fund. To celebrate this event, a one-day symposium was organized by the former Dekaban Fellows at the Warsaw University of Technology in November of 2013.

The fund remains fiscally healthy and the program is ready to receive new exchange visitors. Updated information about the program is available at the Dekaban Fund web site (http://dekaban.engin.umich.edu/).
2013-2014 Activities

New Dekaban Program Committee in Warsaw

With new administration installed at the Warsaw University of Technology, the membership of the Dekaban Program Committee has changed. In the fall of 2013, Rector Jan Szmidt appointed Professor Piotr Wolanski as chair of the Dekaban Program Committee at WUT, and Professor Rajmund Bacewicz, the newly elected Vice-Rector, joined the committee ex-officio. Two other members of the Committee were appointed in early 2014: Professor Anna Sieminska-Lewandowska and Dr. Robert Mroczynski. The new Committee met with the University of Michigan Dekaban Fund Coordinator, Prof. R. Michalowski, in March of 2014.

During the meeting of the new Dekaban Program Committee in March 2014 at Warsaw University of Technology, from left: Prof. Rajmund Bacewicz, Vice-Rector for Research; Prof. Anna Sieminska-Lewandowska; Dr. Robert Mroczynski; Prof. Radoslaw Michalowski, U-M Dekaban Program coordinator; and Prof. Piotr Wolanski, committee chair

The members of the Committee discussed plans for the rest of the fiscal year, and fiscal year 2014-15. The Committee approved Dr. Jacek Szymczyk, an assistant professor at the Faculty of Mechanical, Power, and Aeronautical Engineering at WUT, as the 2014-15 Dekaban Fellow.
Dekaban Fellowships

The principal activity of the Dekaban Program is the exchange of junior faculty members between the Warsaw University of Technology and the College of Engineering at the University of Michigan. Potential Dekaban Fellows are recruited from the rank of assistant professors at WUT. Dekaban Fellows are matched with a faculty member who does research in a similar area, and, typically, over the period of their fellowship, they collaborate with that person’s research group.

Dr. Aldona Kluczek

In September 2013, the Dekaban Program welcomed Dr. Aldona Kluczek as its 2013-14 Dekaban Fellow. Dr. Kluczek spent a full year as a visiting research scientist at U-M, departing in September 2014.

An assistant professor in the Faculty of Production Engineering at WUT, Dr. Kluczek’s work is largely focused on sustainable manufacturing with an environmental emphasis. In addition to her research, she teaches courses on operations research, production and operations management, project and innovation management, quality engineering and management, and the design of quality management systems.

At U-M, Dr. Kluczek was hosted by Prof. Larry Seiford in the Department of Industrial and Operations Engineering. The majority of her work, however, was performed in collaboration with Prof. Arvind Atreya (Mechanical Engineering) and a small team of graduate students. Together, they performed a series of energy audits at more than ten small- and medium-sized manufacturing plants in various industries throughout the state of Michigan. This Industrial Assessment Center team prepared a comprehensive report outlining each facility’s current energy consumption figures and providing recommendations to improve productivity and save energy—both gas and electricity—in the plants’ production processes.

While having a slightly different emphasis than her work at WUT, the project complemented Dr. Kluczek’s focus on sustainable manufacturing. As a result of this project and her time as a Dekaban Fellow, she was able to delve deeper into her area of research and hopes to refocus her work in Poland to include both sustainable manufacturing and energy efficiency audits. In addition, she plans to collaborate with Prof. Seiford on a paper about the energy efficiency of industrial plants in Michigan.
Dekaban Fellowships are offered to junior faculty members at Warsaw University of Technology for up to 12 months. Senior Dekaban visitors, whether from Warsaw visiting Ann Arbor or U-M faculty visiting WUT, typically come for up to two weeks. This year, Prof. Jacek Dybala from the Faculty of Automotive Engineering visited the University of Michigan for three months, starting in early September, 2013. Professor Dybala’s fellowship was funded by the Warsaw University of Technology, but the Dekaban Program matched Prof. Dybala with a research group at the U-M College of Engineering, and arranged for administrative steps, such as a U.S. visa and the visiting appointment in the CoE. Prof. Dybala collaborated with Prof. Jerry Lynch at the Department of Civil and Environmental Engineering (CEE).
First Dekaban Seminar

In celebration of the twentieth anniversary of the Dekaban Fund, the First Dekaban Seminar was organized in Warsaw under the auspices of the Rector of the Warsaw University of Technology on November 14, 2013 (see poster below).

Eighteen papers were presented during the all-day symposium. Most papers were presented by former Dekaban Fellows. The symposium was given the title “Mechanics and Materials,” and a monograph bearing the same title, containing all papers, was published before the meeting (ISBN 978-83-7814-170-9). The monograph was published with the funds of the Rector of WUT.
Other Activities

Visiting the U.S. creates an opportunity for Dekaban Fellows to learn about American traditions. Each Dekaban Fellow has an opportunity to participate in at least one major national holiday. Prof. Jacek Dybala and Dr. Aldona Kluczek celebrated Thanksgiving in 2013 trying to carve the turkey, a traditional Thanksgiving dish.

Prof. Jacek Dybala and Dr. Aldona Kluczek in an attempt to carve a Thanksgiving turkey
Plans for 2014-2015

Dr. Jacek Szymczyk will become the 2014-15 Dekaban Fellow. He is a lecturer at the Faculty of Power and Aeronautical Engineering, and will be visiting for 12 months to work with Prof. Arvind Atreya in the Department of Mechanical Engineering.

Prof. Jerry Lynch of the Department of Civil and Environmental Engineering will visit Warsaw University of Technology in the fall of 2014. He will present several seminars and lectures at the Faculty of Automotive and Construction Machinery Engineering. Professor Jacek Dybala, who was a senior visitor to CoE this year, holds an appointment in this department.
Appendices

Appendix A
Dekaban Fund Advisory Council and Program Committee

Dekaban Fund Advisory Council:

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President, Piast Institute
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Geneva Rivera
Piast Institute, Veterans Benefits
11633 Joseph Campau
Hamtramck, MI  48212
313-733-4535
mrivera@piastinstitute.org
**Dekaban Program Committee at the Warsaw University of Technology:**

Professor Piotr Wolański, Chair
Professor Rajmund Bacewicz, *ex-officio*, Vice-Rector for Research
Dr. Robert Mroczynski
Professor Anna Sieminska-Lewandowska

**Dekaban Program Coordinator at the University of Michigan College of Engineering:**

Professor Radoslaw L. Michalowski
Appendix B

Dekaban Fellow Profile

Name: Aldona Kluczek  
Assistant professor, Faculty of Production Engineering  
Warsaw University of Technology  
2013-2014 Dekaban Fellow

Institution: University of Michigan College of Engineering  
Department of Industrial & Operations Engineering; and  
Department of Mechanical Engineering  
Home Department: Production Engineering  
Warsaw University of Technology

Title: Visiting Assistant Research Scientist

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

E-Mail:  
a.kluczek@wip.pw.edu.pl  
aldona.kluczek@gmail.com

Education:  
2013 – PhD, Warsaw University of Technology  
2006 – MS, Warsaw University of Technology

Research Interests: Sustainable manufacturing, energy efficiency, assessment of environmental and economic performance of industrial plants from a life cycle perspective

Dekaban Fund Activity: Dekaban Fellow, October, 2013 - September, 2014; carried out a series of energy audits at small- and medium-sized manufacturing plants in various industries throughout the state of Michigan; in collaboration with Industrial Assessment Center team, prepared a comprehensive report outlining each facility’s current energy consumption figures and providing recommendations for identifying opportunities to improve productivity, and save energy of both gas and electricity in the plants’ production processes; worked under the supervision of Prof. Arvind Atreya and Dr. Pawel Olszewski of the Department of Mechanical Engineering.
Appendix C

Visitor Profiles

Name: Jacek Dybała
Associate professor, Faculty of Automotive and Construction Machinery Engineering
Warsaw University of Technology
2013 CoE Senior Visiting Fellow

Institution: University of Michigan, College of Engineering,
Department of Civil and Environmental Engineering
Home Department: Automotive and Construction Machinery Engineering, Warsaw University of Technology

Title: Visiting Scientist

Address: 2340 G.G. Brown Building
Ann Arbor, MI 48109-2125

E-Mail: jdybala@simr.pw.edu.pl

Education: 2010 - DSc (Habilitation Doctorate), Department of Automotive and Construction Machinery Engineering, Warsaw University of Technology 2000 - PhD, Department of Automotive and Construction Machinery Engineering, Warsaw University of Technology 1990 - MSc, Institute of Organization of Production Systems, Warsaw University of Technology 1988 - MSc, Department of Automotive and Construction Machinery Engineering, Warsaw University of Technology

Research Interests: Diagnostic systems; structural health monitoring; signal processing and analysis; neural networks; genetic algorithms

Exchange Activity: Senior Visiting Fellow, September 2013 - December 2013; carried out research on development of damage detection strategies for the autonomous identification of damage in reinforced concrete structures exposed to ambient and seismic dynamic loads; collaborated with Prof. Jerome P. Lynch from the Department of Civil and Environmental Engineering.
Appendix D

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