University of Michigan
College of Engineering

Dr. Anatole S. and Pamela D. Dekaban Fund

Annual Report
July 1, 2015 – June 30, 2016

Prepared by
Professor Radoslaw L. Michalowski
Dekaban Program Coordinator

November 2016

Warsaw University of Technology
The inner courtyard of the Main Building
Table of Contents

Executive Summary 3

2015-16 Activities

Meeting of the Dekaban Program Committee in Warsaw 4
Dekaban Fellowship 5
Other activities 7

Plans for 2016-17 8

Financial Report 9

Appendices

Appendix A: Dekaban Fund Advisory Council and Program Committee i
Appendix B: Dekaban Fellow Profile iii
Appendix C: Dekaban Fund Endowment Agreement iv
**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. This is facilitated, in part, by sponsorship of fellowships for junior faculty members from WUT to the U-M. In fiscal year 2015-16, the College of Engineering hosted one Dekaban Fellow for twelve months; this Fellow worked directly with the Department of Climate and Space Sciences and Engineering.

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 website (http://dekaban.engin.umich.edu/).
2015-2016 Activities

Meeting of the Dekaban Program Committee in Warsaw

The Dekaban Program Committee held a meeting on June 21, 2016, to discuss the program activities. The availability of Dekaban Fellowships was broadly advertised in May throughout all WUT departments, and an exceptionally strong pool of candidates was identified for academic year 2016-17. After the meeting of the committee, interviews of candidates were carried out, and two candidates were selected for 2016-17 Dekaban Fellowships.

After the meeting of the Dekaban Program Committee on June 21st, 2016, at Warsaw University of Technology, from left: Prof. Piotr Wolanski, committee chair; Prof. Anna Sieminska-Lewandowska; Prof. Radoslaw Michalowski, U-M Dekaban Program coordinator, and Prof. Rajmund Bacewicz, Vice-Rector for Research

The Committee approved Dr. Lukasz Maksymiuk, an assistant professor at the Faculty of Electronics at WUT, and Dr. Piotr Ogrodnik, an assistant professor at the Faculty of Physics at WUT as the 2016-17 Dekaban Fellows. They both will spend 12 months in Ann Arbor, working with faculty in the Department of Electrical Engineering and Computer Science.
Dekaban Fellowship

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 faculty members who do research in similar areas, and play the role of mentors. Typically, over the period of their fellowships, Dekaban Fellows collaborate with the research groups of their mentors.

Dr. Malgorzata Winska arrived in Ann Arbor in late September 2015 as the 2015-16 Dekaban Fellow. Dr. Winska spent a full year as a visiting research scientist at U-M, departing in September 2016.

An assistant professor in the Faculty of Civil Engineering at WUT, Dr. Winska has taught surveying courses to undergraduates since 2013. Her research interests include theory of Earth rotation; variations of polar motion excitations from models of atmosphere, ocean and continental hydrosphere; and low degree gravity changes from GRACE (Gravity Recovery and Climate Experiment), SLR (Satellite Laser Ranging), GNSS (Global Navigation Satellite System) satellite missions, and Earth rotation and climate models. More specifically, Dr. Winska studies changes in the earth’s rotation based on geodetic measurement, geophysical models and climate models, examining how polar motion is changing due to various influences, and working to improve models that measure these changes. Dr. Winska has studied the contributions of various geodetic technique measurements to interpreting the surface mass density of the earth. She also studies changes in the earth’s gravity field based on the GRACE and GOCE (Gravity field and steady-state Ocean Circulation Explorer) space gravity missions.

While at U-M, Dr. Winska worked with Prof. Christiane Jablonowski’s Atmospheric Dynamics Modeling Group in the Department of Climate and Space Sciences and Engineering. There, she conducted research connected with estimating the influence of geophysical fluids, atmosphere, ocean and land hydrology on Earth's rotation. Dr. Winska analyzed several general circulation models from the Coupled Model Intercomparison Project Phase 5 (CMIP5) with a goal of improving agreement between geodetic and geophysical excitation functions. The results have
been compared with other climate models (Global Land Data Assimilation System - GLDAS) and with GRACE data at decadal, seasonal and non-seasonal time scales.

Dr. Winska shared that the Dekaban Fellowship provided her with several valuable professional opportunities. She was able to work as part of an international team; she improved her programming skills; and, through her research, Dr. Winska gained valuable knowledge about climate models – specifically, the third and fifth phases of CMIP5 – and became acquainted with the newest techniques for global climate and weather modeling. During her visit, Dr. Winska completed two papers, which have been submitted for publication in *Artificial Satellites* and the *Journal of Geodesy*. A third article is underway, which she hopes will be featured in the *Journal of Hydrology*.

Outside of her academic pursuits while at U-M, Dr. Winska participated in a monthly lunch at the University’s International Center to learn about American culture, and a weekly English conversation class at the English Language Institute. She also participated as a judge in a geophysical conference on campus. With her husband and young daughter, Dr. Winska took time to explore some of the United States and Canada, visiting all five of the Great Lakes.
**Other Activities**

The Dekaban Program is considered in Polish academic circles as an exemplary exchange program that benefits the Warsaw University of Technology through providing a venue for the development of young academic professionals. For that reason, the coordinator of the Program is being invited occasionally by Polish academic and professional associations to speak at their meetings on the subject of international academic exchange. In fiscal year 2015-16, Prof. Michalowski was invited to speak at a meeting in Washington, DC, organized at the Embassy of Poland and focused on entrepreneurship in academia and international collaborations in engineering. The meeting (Oct. 30-31, 2016) was attended by several university presidents from Poland, as well as Polish engineers both from Poland and the US. Prof. Michalowski’s presentation was entitled: “Dekaban Program: An Example of Polish-American Academic Exchange.”

The Dekaban Program coordinator was invited to a second meeting, the Third World Congress of Polish Engineers that took place in the historic city of Wroclaw, Poland, from June 16-18, 2016. Professor Michalowski was invited to participate on a panel discussing the issues in technical education in global engineering.
Plans for 2016-2017

The pool of candidates for the 2016-17 fellowship was exceptionally strong, and the Committee decided to extend two fellowship offers, one to Dr. Lukasz Maksymiuk and one to Dr. Piotr Ogrodnik.

Dr. Lukasz Maksymiuk is an assistant professor at the Faculty of Electronics at WUT, and will be visiting U-M for 12 months to collaborate on research with Prof. Mohammed Islam of Electrical & Computer Engineering.

Dr. Piotr Ogrodnik was selected the second of two Fellows for academic year 2016-17. With a background is in physics, he will join the Department of Electrical Engineering & Computer Science for 12 months and will collaborate with Prof. Wei Lu.
Appendices

Appendix A

Dekaban Fund Advisory Council and Program Committee

Dekaban Fund Advisory Council:

Thaddeus C. Radzilowski, Ph.D.
Committee Chair
President, Piast Institute
11633 Joseph Campau
Hamtramck, MI 48212
313-733-4535
radzilowski@piastinstitute.org

Anna Bielinska, Ph.D.
University of Michigan
1652 Golden Lane
Ypsilanti, MI 48198
734-647-0052
abielins@umich.edu

Yvonne Bankowski
707 S. Vermont
Royal Oak, MI 48067
313-322-3599
ybankows@ford.com

Karen Majewski
Mayor, City of Hamtramck
2627 Pulaski
Hamtramck, MI 48212
313-365-5929
kmajewska@comcast.net

Waldek Raczkowski
Ford Motor Company
35126 Glengary Circle
Farmington Hills, MI 48331
248-514-0461
wraczkow@ford.com

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 Mroczyński
Professor Anna Siemińska-Lewandowska

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

Professor Radoslaw L. Michalowski
Appendix B

Dekaban Fellow Profile

Name: Małgorzata Wińska
Assistant Professor, Faculty of Civil Engineering
Warsaw University of Technology
2015-2016 Dekaban Fellow

Institution: University of Michigan College of Engineering:
Department of Climate and Space Sciences and
Engineering
Home Department: Institute of Roads and Bridges
Warsaw University of Technology

Title: Visiting Assistant Research Scientist

Address: 00-637 Warszawa, Al Armii Ludowej 16, Poland

Mail: m.winska@il.pw.edu.pl

Education: 2013 – PhD, University of Warmia and Mazury
2008 – MS, Warsaw University of Technology

Research Interests: Excitations of polar motion estimated from geophysical
models and space geodetic observations of Earth rotation,
Earth's gravity fields changes

Dekaban Fund Activity: Dekaban Fellow, October, 2015 - September, 2016; carried
out research connected with estimating influence of the
geophysical fluids, atmosphere, ocean and land hydrology
on Earth's rotation, in the Atmospheric Dynamics Modeling
Group of Prof. Christiane Jablonowski (Climate and Space
Sciences and Engineering), with the main goal of this study
was increasing agreement between geodetic and geophysical
excitation functions of polar motion by analyzing different
climate models from the fifth version of the Coupled Model
Inter-comparison Project-Phase 5 (CMIP5).
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.

s/ Pamela D. Dekaban

THE COLLEGE OF ENGINEERING       THE REGENTS OF THE UNIVERSITY OF MICHIGAN

By Peter M. Banks, Its Dean

By Gilbert R. Whitaker,
Its Provost and Vice President for Academic Affairs