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## SHORT BIOGRAPHIES

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**Sally Benson**

**PROFESSOR OF ENERGY RESOURCES ENGINEERING**

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Sally M. Benson, who joined Stanford University in 2007, is the co-director of Stanford's Precourt Institute. A Professor in the Department of Energy Resources Engineering in the School of Earth, Energy & Environmental Sciences; she studies technologies and pathways to reducing greenhouse gas emissions including geologic storage of CO<sub>2</sub> in deep underground formations and energy systems analysis for a low-carbon future. She also directs Stanford's Global Climate and Energy Project. Prior to joining Stanford, Benson was Division Director for Earth Sciences, Associate Laboratory Director for Energy Sciences and Deputy Director at LBNL. Professor Benson serves on the Board of Directors for the National Renewable Energy Laboratory and Climate Central. Currently she also serves on the Advisory Boards for Argonne National Laboratory and Pacific Northwest National Laboratory, Princeton's Carbon Mitigation Initiative, Princeton's Adlinger Center, Japan's Initiative for the Cool Earth Forum, and the Lahore University of Management Science in Pakistan. Over the past several years she participated in a number of National Academy of Sciences, Secretary of Energy, and National Petroleum Council research needs assessments related to carbon management. She also is on the Editorial Board for Energy and Environmental Sciences.



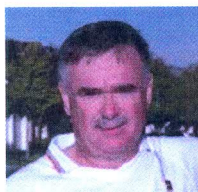
**Henryk Krzysztof Błasiński**

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Henryk Blasinski received the M.S. degree (Hons.) in telecommunications and computer science from the Lodz University of Technology, Lodz, Poland, and the Diplome d'Ingénieur degree from the Institut Supérieur d'Electronique de Paris, France, in 2008 and 2009, respectively. In 2018 he received a Ph. D. in Electrical Engineering from Stanford University, CA. He was a Fulbright Scholar with the Department of Electrical and Computer Engineering, University of Rochester, Rochester, NY, from 2010 to 2011. Henryk's research interests include image processing, human and computer vision and machine learning. Henryk is a recipient of several awards, including the Fellowship from the Minister of Higher Education of the Republic of Poland, the Polish Talents Award, the DP Systems Award, the Fellowship of the Lodz Region Marshall, and the 2014 SPIE Digital Photography X Best Paper Award.



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**Janusz Bryzek**  
**EXO IMAGING, INC.**

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Dr. Janusz Bryzek received his MSEE and Ph.D. from Warsaw Technical University, Poland. He completed the Executive Management Program at Stanford University. Dr. Bryzek is considered one of the pioneers of MEMS. He co-founded nine Silicon Valley MEMS companies: Sensym (now Honeywell), ICSensors (now Elmos/MSI), NovaSensor (now General Electric), Intelligent MicroSensor Technology (now Maxim), Transparent Networks (now Intel), LVSI (now Atmel), Jyve (now Fairchild Semiconductor), BN Ventures (Strategic Consulting) and TSensors Summit formed in 2013. The TSensors (Trillion Sensors) initiative aims at accelerated development of new sensor types to support the Abundance which targets elimination of major global problems in one generation using, among others, 45 trillion sensors. Dr. Bryzek has been performing due diligence for top tier VC firms, including USVP, Mayfield, Benchmark, Morgenthaler and Panorama. He also worked as an advisor or Board member for over 40 start-ups. In 1989 he was recognized as "Entrepreneur of the Year" by Arthur Young. In 1994 he was awarded the Lifetime Achievement Award by Sensors Magazine and in 2003 by MANCEF. Dr. Bryzek has delivered over 250 presentations and papers, wrote sections of four books, organized and chaired many international conferences and has 23 issued US patents. He started several sensor standardization efforts, including AAMI Disposable Blood Pressure Transducers, IEEE-1451 Smart Sensor Communication and Trillion Sensors. Dr. Bryzek serves on several Advisory Boards including NSF Nanosystems Engineering Research Center (NERC) for Advanced Self-Powered Systems of Integrated Sensors and Technologies (<http://assist.ncsu.edu/>), and several start-ups. He is also Advisory Board Member of The Global Medical Microtechnology Association (<http://www.gmma.org/>) and a member of IEEE-MEMS Program Committee (<http://sites.ieee.org/scv-mems/>).



**Mark Chandler**  
**INTERNATIONAL RELATIONS DIRECTOR**  
**CITY OF SAN FRANCISCO**

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Mark Chandler is the Director of the San Francisco Mayor's Office of International Trade and Commerce. Mark has been a member of the Mayor's Office for over twenty-seven years and six mayors. Mark is responsible for the international programs of the City of San Francisco, including innovation and technology exchange, Smart City dialogue, trade missions, investment promotion, diplomatic relations and global policy formation. Mark has coordinated over thirty overseas missions to locations diverse as Mexico, China, India, France, Israel, Vietnam, Ireland, Australia, The Philippines, Korea, Hong Kong, Taiwan, Canada and Japan. He is a member of many organizations including being a member of the Board of Directors of the San Francisco Global Trade Council, the Board of Directors for the Civic Innovation Foundation, the Advisory Board for San Francisco State University International Business Department and is Co-President of the San Mateo High School Foundation. Mark was recently named to the US Special Trade Representatives Intergovernmental Advisory Group. He has also recently been a plenary speaker at the World Cities Summit in Singapore, the Smart Living City Summit in Dubai and the City Innovation Summit in Barcelona. He has





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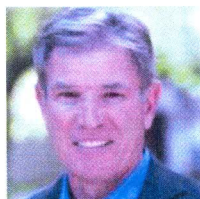
a BA in Economics from U.C. Davis and an MBA in International Marketing from UC Berkeley Haas School of Business. Mark is married with one daughter.



**Radosław Chrapkiewicz**  
**POSTDOCTORAL RESEARCH FELLOW, BIOLOGY**

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Radosław Chrapkiewicz obtained his MSc and PhD degrees in Physics at the University of Warsaw pursuing experimental research on quantum memories and creating techniques for imaging of non-classical interference of photons. Joining Stanford University as a postdoctoral scholar in 2016, he transitioned from quantum optics to the interdisciplinary field of neuroscience where he focuses on optical brain imaging. Currently, he is creating new optical and analytical techniques to crack neural code in mice brains by functional imaging of large neural networks in vivo.



**Steve Ciesinski**  
**SENIOR ADVISOR, PRESIDENT**  
**SRI INTERNATIONAL**

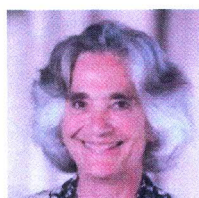
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Stephen Ciesinski is a senior advisor to SRI International ([www.sri.com](http://www.sri.com)), having previously served as president. SRI is one of the world's leading independent research and development organizations. SRI performs client-sponsored R&D for government agencies, commercial businesses, and private foundations. Steve's professional experience includes a number of industries and businesses: consumer products, semiconductor capital equipment, telecommunications, mobile/wireless, applications software, Web 2.0, open source, medical devices, and many others. As a corporate officer, board member, advisor and investor, he has participated in or managed numerous strategic events, including new business formation, major product launches, private financings, IPOs, M&A transactions and leveraged buy-outs. Over the course of his career Steve has held executive management positions with Applied Materials, the global manufacturer of semiconductor capital equipment; Octel Communications, the worldwide leader in voice-messaging products; Resumix, Inc., the inventor of Web-based personnel recruiting applications; and Laszlo Systems, a pioneer in Web 2.0 software and provider of complex Internet applications to Global 2000 and telecommunications service operators. He started his career at Procter & Gamble, was a consultant with Booz, Allen & Hamilton, and also served as a venture partner with Earlybird Ventures. Steve is past Chairman of the Board of Trustees for Union College and is a lifetime trustee. He is also past chairman of The President's Cabinet at California Polytechnic State University (Cal Poly), and has been on several advisory boards at Stanford University. Steve is an active angel investor, and assists several Silicon Valley-based private companies as advisor and board member. He is a graduate of Union College with a double major in Electrical Engineering and Modern Languages, and received an MBA from Stanford University. Steve resides in Los Altos Hills, California with his wife. They are founders of the Kalele Foundation, dedicated to providing character and self-esteem development experiences for disadvantaged children. More information: <https://www.gsb.stanford.edu/faculty-research/faculty/steve-ciesinski>





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### **Persis Drell**

**PROVOST, JAMES AND ANNA MARIE SPILKER PROFESSOR  
AND PROFESSOR IN THE SCHOOL OF ENGINEERING,  
PROFESSOR OF MATERIALS SCIENCE AND ENGINEERING  
AND PROFESSOR OF PHYSICS**

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Drell is a physicist who has served on the Stanford faculty since 2002. She is the James and Anna Marie Spilker Professor in the School of Engineering, a professor of materials science and engineering, and a professor of physics. She is the former dean of the Stanford School of Engineering and the former director of the U.S. Department of Energy's SLAC National Accelerator Laboratory at Stanford. Drell received her bachelor's degree in mathematics and physics from Wellesley College in 1977, followed by a PhD in atomic physics from the University of California, Berkeley, in 1983. She then switched to high-energy experimental physics and worked as a postdoctoral scientist at the Lawrence Berkeley National Laboratory. She joined the physics faculty at Cornell University in 1988. In 2002, Drell joined the Stanford faculty as a professor and director of research at SLAC. In her early years at SLAC, she worked on the construction of the Fermi Gamma-ray Space Telescope. In 2005, she became SLAC's deputy director and was named director two years later. She led the 1,600-employee SLAC National Accelerator Laboratory until 2012. Drell is credited with helping broaden the focus of the laboratory, increasing collaborations between SLAC and the main Stanford campus, and overseeing transformational projects. During Drell's tenure as director, SLAC transitioned from being a laboratory dedicated primarily to research in high-energy physics to one that is now seen as a leader in a number of scientific disciplines. In 2010, the laboratory began operations of the Linac Coherent Light Source (LCLS). LCLS is the world's most powerful X-ray free electron laser, which is revolutionizing study of the atomic and molecular world. LCLS is used to conduct scientific research and drive applications in energy and environmental sciences, drug development, and materials engineering. After serving as the director of SLAC, Drell returned to the Stanford faculty, focusing her research on technology development for free electron lasers and particle astrophysics. Drell was named the dean of the Stanford School of Engineering in 2014. As dean of the School of Engineering, Drell catalyzed a collaborative school-wide process, known as the SoE-Future process, to explore the realms of possibility for the future of the School of Engineering and engineering education and research. The process engaged a broad group of stakeholders to ask in what areas the School of Engineering could make significant world-changing impact, and how the school should be configured to address the major opportunities and challenges of the future. The process resulted in a set of 10 broad aspirational questions to inspire thought on the school's potential impact in the next 20 years. The process also resulted in a series of actionable recommendations across three areas – research, education, and culture. Drell's approach to leading change emphasized the importance of creating conditions to optimize the probability of success. As dean, Drell placed an emphasis on diversity and inclusion. She focused on increasing the participation of women and underrepresented minorities in engineering. She also sought to ensure a welcoming and inclusive environment for students of all backgrounds in the school. In addition to her administrative responsibilities, Drell teaches a winter-quarter companion course to introductory physics each year for undergraduate students who had limited exposure to the subject in high school. Drell is a member of the National Academy of Sciences and the American Academy of Arts and Sciences, and is a fellow of the American Physical Society. She has been the recipient of a Guggenheim Fellowship and a National Science Foundation Presidential Young Investigator Award.





**Lech Jerzy Dzienis**

**Rector of the Bialystok University of Technology**

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Author of 60 monographs, 75 articles and papers, 1 monograph book and 2 academic books, and co-author of over 30 scientific research publications. Moreover, was in charge of 5 State Committee for Scientific Research grants, supervised 8 Ph.D. dissertations, as well as over 100 master and engineer theses. Gained experience at the Moscow Civil Engineering Institute (USSR), University of South Florida (USA) and the University of Connecticut (USA), among others. His knowledge and experience is used by actively participating in numerous scientific, expert and professional societies. Was a member of the Council of Podlasie Regional Chamber of Civil Engineers. Next was an expert of the Foundation EKOFUNDUSZ, expert in environmental impact assessment on the list of the Podlaski Voivode and a member of the Committee of Environmental Engineering of Polish Academy of Sciences in the years 2012-2015. Since 2009 he was the President of the Supervisory Board of Bialystok Water-Supply Company. Moreover, together with a group of friends he acted in economic and business fields within the Project Research Office PROEKO and the company BSK-BIOGEST. Author of a series of innovative solutions in the field of technology, the design engineer of more than 120 sewage treatment plants and water-supply and sewage systems. He is a pioneer in Poland of implementation of autothermic aerobic sludge digestion installations and innovative odor-control systems for sewage treatment plants. Since 2012 Rector of the Bialystok University of Technology.



**Renate Fruchter**

**DIRECTOR OF PBL LAB**

**Civil and Environmental Engineering**

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Dr. Renate Fruchter is the founding director of the Project Based Learning Laboratory (PBL Lab), lecturer in the Department of Civil and Environmental Engineering, and Senior Research Engineer thrust leader of Collaboration Technologies at the Center for Integrated Facilities Engineering (CIFE), at Stanford. She leads a research effort to develop collaboration technologies for multidisciplinary, geographically distributed teamwork, and e-Learning. Her interests focus on R&D and larger scale deployment of collaboration technologies that include Web-based team building, synchronous and asynchronous knowledge capture, sharing and re-use, project memory, corporate memory, and mobile solutions for global teamwork and e-Learning. In addition, she has established in 1998 a strong research effort focusing on the impact of technology on learning, team interaction, and assessment. She is the leader and developer of the innovative "Computer Integrated Architecture/Engineering/Construction Global Teamwork" course launched in 1993, at Stanford, that engages universities from US, Japan, and Europe. Dr. Renate Fruchter has received her Engineering Diploma from the Institute for Civil Engineering in Bucharest, Romania (1981), her MSc. (1986) and Ph.D. (1990) from Technion Israel Institute of Technology. She has joined Stanford University in 1990.



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**Magdalena Gebala**  
**BASIC LIFE RESEARCH SCIENTIST, BIOCHEMISTRY**

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Dr. Magdalena Gebala is a biophysicist studying nucleic acid and protein electrostatics in biological systems and at electrified interfaces. She holds aM.Sc. degree in Molecular Biology and Biocatalysis from Wrocław University of Science and Technology, Poland and a PhD (*summa cum laude*) in Bioelectrochemistry from Ruhr University Bochum, Germany. Her doctoral dissertation focused on the development of electrochemical biosensors to detect DNA and RNA in biological samples. In 2012, Dr. Gebala joined the lab of Dan Herschlag at Stanford University, where she has been performing pioneering work on the quantitative experimental study of nucleic acid and protein electrostatics. She has co-authored 32 research papers and she is a recipient of the Joachim Walter Schultze Award for young electrochemists in Germany



**Anna Grzymala-Busse**  
**KEVIN AND MICHELLE DOUGLAS PROFESSOR OF INTERNATIONAL  
STUDIES AND SENIOR FELLOW AT THE FREEMAN SPOGLI INSTITUTE FOR  
INTERNATIONAL STUDIES**

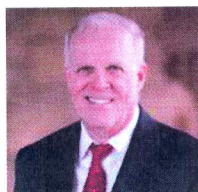
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Anna Grzymala-Busse is a professor in the Department of Political Science at Stanford University. Her research interests include political parties, state development and transformation, informal political institutions, religion and politics, and post-communist politics. In her first book, *Redeeming the Communist Past*, she examined the paradox of the communist successor parties in East Central Europe: incompetent as authoritarian rulers of the communist party-state, several then succeeded as democratic competitors after the collapse of these communist regimes in 1989. *Rebuilding Leviathan*, her second book project, investigated the role of political parties and party competition in the reconstruction of the post-communist state. Unless checked by a robust competition, democratic governing parties simultaneously rebuilt the state and ensured their own survival by building in enormous discretion into new state institutions. Her most recent book project, *Nations Under God*, examines why some churches have been able to wield enormous policy influence. Others have failed to do so, even in very religious countries. Where religious and national identities have historically fused, churches gained great moral authority, and subsequently covert and direct access to state institutions. It was this institutional access, rather than either partisan coalitions or electoral mobilization, that allowed some churches to become so powerful. Other areas of interest include informal institutions, the impact of European Union membership on politics in newer member countries, and the role of temporality and causal mechanisms in social science explanations.





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**John L. Hennessy**  
**SHRIRAM FAMILY DIRECTOR, KNIGHT-HENNESSY SCHOLARS**

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As Stanford University's 10th president, John L. Hennessy led the university's extraordinary growth in multidisciplinary research and teaching in the 21st century. John L. Hennessy, Professor of Electrical Engineering and Computer Science, served as President of Stanford University from September 2000 until August 2016. In 2017, he initiated the Knight-Hennessy Scholars Program, the largest fully endowed graduate-level scholarship program in the world, and he currently serves as Director of the program. Hennessy, a pioneer in computer architecture, joined Stanford's faculty in 1977 as an assistant professor of electrical engineering. In 1981, he drew together researchers to focus on a technology known as RISC (Reduced Instruction Set Computer), which revolutionized computing by increasing performance while reducing costs. Hennessy helped transfer this technology to industry cofounding MIPS Computer Systems in 1984. His subsequent research focused on multiprocessor systems, including the DASH and FLASH projects, both of which pioneered concepts now used in industry. He was appointed as the inaugural Willard R. and Inez Kerr Bell Professor of Electrical Engineering and Computer Science in 1987. He has been chair of Computer Science (1994-1996), dean of the School of Engineering (1996-1999), and university provost (1999-2000) before being appointed as Stanford's 10th president in 2000. As president he focused on increasing financial aid and on developing new initiatives in multidisciplinary research and teaching. He was the founding board chair of Atheros Communications, one of the early developers of WiFi technology, and has served on the board of Cisco and Alphabet (Google's parent company). He is the coauthor (with David Patterson) of two internationally used textbooks in computer architecture. His honors include the 2012 Medal of Honor of the Institute of Electrical and Electronics Engineers, the 2017 ACM Turing Award (jointly with David Patterson), the 2001 Eckert-Mauchly Award of the Association for Computing Machinery; the 2001 Seymour Cray Computer Engineering Award, and the 2004 NEC C&C Prize for lifetime achievement in computer science and engineering. He is an elected member of the National Academy of Engineering, the National Academy of Science, the American Academy of Arts and Sciences, The Royal Academy of Engineering, and the American Philosophical Society. Hennessy earned his bachelor's degree in electrical engineering from Villanova University and his master's and doctoral degrees in computer science from the Stony Brook University. More information: <https://hennessy.stanford.edu/biography/>



**Przemysław Jeziorski**  
**ASSOCIATE PROFESSOR, UNIVERSITY OF CALIFORNIA  
BERKELEY, HAAS SCHOOL OF BUSINESS**

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Przemyslaw Jeziorski published multiple articles in the leading economics and marketing scholarly journals. His research made a contribution to a variety of markets, including mobile money in Africa, sponsored search advertising, radio broadcasting, car insurance, and breast cancer prevention. He developed a successful Berkeley MBA elective covering topics in marketing analytics, such as targeting, churn management, causal analysis, machine learning, and experiment design. Expertise and Research Interests: Industrial Organization, Quantitative Marketing. Positions held at Haas since 2010: 2010 – 2011, Assistant





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Professor of Economics, John Hopkins University; 2012 – present, Assistant Professor of Marketing, Haas School of Business; 2018 – present, Associate Professor of Marketing, Haas School of Business, Barbara and Gerson Bakar Faculty Fellow, Schwabacher Fellow. More information: <https://haas.berkeley.edu/faculty/jeziorski-przemyslaw/>



**Łukasz Kidziński**  
**POSTDOCTORAL RESEARCH FELLOW, BIOENGINEERING**

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Łukasz Kidziński is a postdoctoral researcher in the Mobilize Center at Stanford, working on the intersection of computer science, statistics, and biomechanics. He is a co-founder of Saliency.ai -- a startup focusing on improving the efficacy of clinical trials using artificial intelligence. Previously, Łukasz was a researcher in the CHILI group, Computer-Human Interaction in Learning and Instruction, at the EPFL. He obtained his Ph.D. at Université Libre de Bruxelles in mathematical statistics, working on time series analysis and functional data. He obtained two master degrees in mathematics and computer science, from the University of Warsaw. His research interests include time series analysis, large scale statistics, alternative data, and applications of data science in biological and medical sciences.



**Robert N. Klein**  
**PRESIDENT, FOUNDER AND CEO**  
**KLEIN FINANCIAL CORPORATION**

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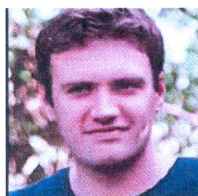
Robert N. Klein is President of Klein Financial Corporation, a company that designs and implements innovative solutions for affordable housing mortgage financing. Klein Financial Corporation acts as a development managing partner or as a development and finance consultant, assisting its clients with new construction, acquisition and rehabilitation of affordable multifamily and mixed-use developments. More than \$5 billion in financing has been arranged by Klein Financial for its projects or those of its clients. Throughout its history, Klein Financial also has served as a financial advisor to state and regional public entities. Bob's public service and charitable commitments have centered on medical research and affordable housing. His commitment to advancing medical research originated with his younger son Jordan's diagnosis with Type 1 Diabetes (the immune system driven form of the disease) in 2001. In addition, his mother was diagnosed with Alzheimer's two years earlier. In 2002, Bob was a principal negotiator, as a part of a JDRF patient advocate team that worked successfully to pass a \$1.5 billion mandatory federal funding bill for an additional five years of Type 1 and Type 2 diabetes supplemental National Institutes of Health research funding. In 2003, Bob served as the author and Chairman of California's Proposition 71, the \$6 billion "California Stem Cell Research and Cures" Ballot Initiative. (Proposition 71 approved \$3 Billion for research funding and \$3 Billion to cover the interest for 35 years – a total of \$6 Billion.) For the first 7 years of its existence, Bob served as the Chairman of the Governing Board of the California Institute of Regenerative Medicine (CIRM) established by Proposition 71 to manage the peer review, standards, and grant process for the \$3 billion in stem cell research funding authorized by the Initiative. Bob was elected Chairman Emeritus of CIRM on June 23, 2011. Bob serves on the Board of Directors of the International





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Juvenile Diabetes Research Foundation and on the Board of the Global Security Institute, dedicated to reducing the global risks from nuclear weapons. He was appointed in 2007 to the Board of Genome Canada, a Canadian government genomic and proteomic research agency with \$1.8 billion in a medical research portfolio. He was co-chair of the Stem Cell and Regenerative Medicine Working Group of the Canada-California Strategic Innovation Partnership, the working group which initiated the Cancer Stem Cell Consortium in Canada, a strategic partner of the California Institute for Regenerative Medicine. Bob has also served as the Vice-President of the Board of Directors of the State of the World Forum, an international organization focused on global economic development. More information: <https://klein-financial.com/team/president/>



**Bazyli Klockiewicz**

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Bazyli is a Fulbright PhD student at the Institute for Computational and Mathematical Engineering at Stanford University, advised by prof. Eric Darve. Bazyli focuses on numerical methods in engineering. Prior to Stanford, he attended Adam Mickiewicz University in Poznan where he obtained the magister degree in Mathematics. He has received the Kulczyk Family Scholarship and Adam Mickiewicz University Medal.



**Robert Konrad**

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Robert is a 6th year PhD candidate in the Electrical Engineering Department at Stanford University, advised by Professor Gordon Wetzstein, as part of the Stanford Computational Imaging Lab. His research interests lie at the intersection of computational displays and human physiology with a specific focus on virtual and augmented reality systems. For such systems, he has worked on supporting various depth cues, with a specific interest on focus cues, as well as computationally efficient cinematic VR capture systems. Robert received his Bachelor's Degree from the ECE department at the University of Toronto in 2014, and his Master's Degree from the EE Department at Stanford University in 2016.



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**Michal Kosinski**

**ASSOCIATE PROFESSOR OF ORGANIZATIONAL BEHAVIOR AT THE  
GRADUATE SCHOOL OF BUSINESS**

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Associate Professor in Organizational Behavior at Stanford University Graduate School of Business studying humans in a digital environment using cutting-edge computational methods, AI and Big Data. I have published over 70 papers in leading journals including Proceedings of the National Academy of Sciences, Machine Learning, Psychological Science, and Journal of Personality and Social Psychology, that have been cited over 8,000 times. His research inspired a cover of The Economist, a 2014 theatre play "Privacy", multiple TED talks, a video game, and was discussed in thousands of books, press articles, podcasts, and documentaries. He holds a doctorate in psychology from the University of Cambridge and master's degrees in psychometrics and in social psychology. I was the Deputy Director of the University of Cambridge Psychometrics Centre, a researcher at Microsoft Research, and a post-doctoral scholar at Stanford's Computer Science Department.



**Andrzej Kowalczyk**

**Rector of the University of Silesia in Katowice**

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Polish hydrogeologist, academic teacher and professor of Earth sciences. In 2008-2016 he held the position of vice-rector of the University of Silesia for research and collaboration with industry, the Rector of the University of Silesia in Katowice in 2016-2020. Between 1973 and 1975 Prof. Kowalczyk worked as an assistant designer in the voivodship office in Olsztyn and in a geological company in Cracow. Since 1975 he has been professionally associated with the University of Silesia in Katowice. He also worked as a lecturer in Algeria, at Ecole des Mines in Miljan in 1986-1987, and at the Institut de l'Hydraulique in Szalifa in 1987-1991. In 1991, he became assistant professor at the Department of Hydrogeology and Engineering Geology at the Faculty of Earth Sciences, University of Silesia. He was awarded the title of professor in 2007. At the University of Silesia, Prof. Kowalczyk was the head of the Engineering Geology Department (1998-2004), in 2004 he became the curator of the Department of Hydrogeology and Engineering Geology. Between 2002 and 2005 he was a vice-dean for student affairs, then until 2008 – the vice-dean for research. Between 2008 and 2016 he was the vice-rector of the University of Silesia for research and collaboration with industry. In March 2016 he was elected rector of the University for the 2016-2020 term. Prof. Kowalczyk specializes in hydrogeology, water management and environmental geology. He participated in international projects, including framework programs of the European Union, as well as in several research projects of the Committee for Scientific Research and the Ministry of Science and Higher Education. He is the author and co-author of over 110 scientific and implementation studies of the nature of studies, documentations and expert opinions carried out as part of cooperation with scientific institutions, state and local government administration and enterprises. He holds membership of numerous organizations, including Polish National Committee of the International Hydrologists Association, International Mine Water Association and International Association of Hydrogeologists. Prof. Kowalczyk has been appointed to various advisory and scientific bodies, including the Polish Geological Institute. In 2015 he received the Golden Laurel of Skills and Competences in the field of science and innovation awarded by the Regional Chamber of Commerce in Katowice.





**Michael Lepech**

**ASSOCIATE PROFESSOR OF CIVIL AND ENVIRONMENTAL  
ENGINEERING AND SENIOR FELLOW AT THE WOODS  
INSTITUTE FOR THE ENVIRONMENT**

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Professor Lepech's research focuses on the integration of sustainability indicators into engineering design, ranging from materials design, structural design, system design, to operations management. Such sustainability indicators include a comprehensive set of environmental, economic, and social costs. Recently his research has focused on the design of sustainable high performance fiber-reinforced cementitious composites (HPFRCCs) and fiber-reinforced polymers (FRPs), the impacts of sustainable materials on building and infrastructure design and operation, and the development of new life cycle assessment (LCA) applications for building systems, transportation systems, water systems, consumer products. Along with this he is studying the effects that slowly diffusing sustainable civil engineering innovations, and the social networks they diffuse through, can have on achieving long term sustainability goals.



**Joanna E. Liliental, PhD**

**SENIOR RESEARCH SCIENTIST; SCIENTIFIC DIRECTOR -  
TASC; CO-DIRECTOR - TRAM, MEDICINE**

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Current Role at Stanford: Director, Translational Applications Service Center (TASC), Associate Director, Translational Research and Applied Medicine (TRAM) Program, Senior Research Scientist, Stanford School of Medicine, Instructor of University Courses: MED221 and MED121, Member, Stanford Cancer Institute. Honors & Awards: National Cancer Institute Research Training Grant (PHS Grant Number CA09302), DHHS, National Cancer Institute (2004-2009), NIH Tumor Immunology Institutional Training Grant (NIH CA - 09120), NIH (1996, 1997, 2000), College of Letters and Science Dean's Honor List, University of California - Berkeley (1988). Education & Certifications: PhD, University of California - Los Angeles (2000), BS, University of California - Berkeley (1988).



**Tomasz Łodygowski**

**Rector of the Poznan University of Technology**

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Prof. Tomasz Łodygowski, Ph.D., D.Sc., Eng. In 1974 he graduated from the Faculty of Civil Engineering at the Poznan University of Technology. On the same unit he obtained doctoral degrees in 1982 and post-doctoral thesis in 1997 (based on Theoretical and numerical aspect of plastic strain localization). In 2005 he received the title of professor of technical sciences. Professionally associated with the home university, he



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came to the position of professor at the Institute of Structural Engineering. In the years 2002-2008 he was the vice-rector of Poznan University of Technology. In 2012 he was elected rector of the Poznan University of Technology. In 2016, he was reelected for the next four-year term. He was a scholarship holder of the Fulbright Foundation at Northwestern University (1986-1988) and the Foundation Alexander von Humboldt Universität Hannover (1992-1994). Prof. T. Łodygowski's scientific interests focus on issues of numerical analysis of thermomechanical structures and processes, with particular emphasis on: structure analysis in the field of finite plastic deformations; problems of localization of plastic deformations under dynamic loads; destruction of the structure taking into account the evolution of constitutive features; numerical analysis of mechanical and technological processes; stability of structural systems in the field of elastic and plastic response; numerical analysis of metal matrix composites; analysis of semi-rigid structures (wood and steel); computer biomechanics in application to the analysis of implants and spinal deformities; concrete mechanics and homogenization problems of material properties. He was a member of the Mechanics Committee of the Polish Academy of Sciences and the Central European Association for Computational Mechanics. He co-founded the Polish Society of Computer Methods in Mechanics.



**Paul Marca**

**ASSOCIATE VICE PROVOST, STRATEGY, PROGRAMS &  
DEVELOPMENT; LIFELONG LEARNING - EXECUTIVE  
EDUCATION, STANFORD UNIVERSITY**

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Paul Marca is Associate Vice Provost, Stanford University, Office of the Vice Provost for Teaching and Learning. He has spent 29 years in various roles at Stanford and currently directs a portfolio of over 250 graduate and professional courses annually to industry. He has been instrumental in developing and implementing an international portfolio which includes Singapore, China, India, Korea, Malaysia, Brazil, United Arab Emirates and in numerous European countries including France, Germany, Denmark and Sweden. In 2013, he launched a joint online non-credit certificate program between the School of Engineering and the Graduate School of Business: the Stanford Innovation and Entrepreneurship certificate. This is the first formal online education cooperation between the schools. He has also developed a number of innovative university-industry and university-university partnerships to extend Stanford's educational reach with effective 'go-to-market strategies', including the award-winning Stanford Advanced Project Management program and the Strategic Decision and Risk Management program. Paul has also advised universities, corporations and governmental organizations how to develop and extend education as a means to sustain innovation. Externally, Paul has served as an advisor to numerous startups including xBrain, providing the automotive industry a connected car platform. Paul serves the International Association for Continuing Engineering Education (IACEE) as a council member and First Vice President. He has also presented keynote speeches and workshops around the globe on connecting innovation, strategy and execution. Paul has a B.A. in Communication, with an emphasis in Television & Film production, from Stanford University.





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### **Lloyd B. Minor, MD**

**THE CARL AND ELIZABETH NAUMANN PROFESSORSHIP FOR  
THE DEAN OF THE SCHOOL OF MEDICINE, PROFESSOR OF  
OTOLARYNGOLOGY—HEAD & NECK SURGERY AND, BY  
COURTESY, OF NEUROBIOLOGY AND BIOENGINEERING**

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Lloyd B. Minor, MD, is a scientist, surgeon, and academic leader. He is the Carl and Elizabeth Naumann Dean of the Stanford University School of Medicine, a position he has held since December 2012. As dean, Dr. Minor plays an integral role in setting strategy for the clinical enterprise of Stanford Medicine, an academic medical center that includes the Stanford University School of Medicine, Stanford Health Care, and Stanford Children's Health and Lucile Packard Children's Hospital Stanford. He also oversees the quality of Stanford Medicine's physician practices and growing clinical networks. With Dr. Minor's leadership, Stanford Medicine has established a strategic vision to lead the biomedical revolution in Precision Health. The next generation of health care, Precision Health is focused on keeping people healthy and providing care that is tailored to individual variations. It's predictive, proactive, preemptive, personalized, and patient-centered. An advocate for innovation, Dr. Minor has provided significant support for fundamental science and for clinical and translational research at Stanford. Through bold initiatives in medical education and increased support for PhD students, Dr. Minor is committed to inspiring and training future leaders. Among other accomplishments Dr. Minor has led the development and implementation of an innovative model for cancer research and patient care delivery at Stanford Medicine and has launched an initiative in biomedical data science to harness the power of big data and create a learning health care system. Committed to diversity, he has increased student financial aid and expanded faculty leadership opportunities. Before coming to Stanford, Dr. Minor was provost and senior vice president for academic affairs of The Johns Hopkins University. During his time as provost, Dr. Minor launched many university-wide initiatives such as the Gateway Sciences Initiative to support pedagogical innovation, and the Doctor of Philosophy Board to promote excellence in PhD education. He worked with others around the university and health system to coordinate the Individualized Health Initiative, which aimed to use genetic information to transform health care. Prior to his appointment as provost in 2009, Dr. Minor served as the Andelot Professor and director (chair) of the Department of Otolaryngology—Head and Neck Surgery in the Johns Hopkins University School of Medicine and otolaryngologist-in-chief of The Johns Hopkins Hospital. During his six-year tenure, he expanded annual research funding by more than half and increased clinical activity by more than 30 percent, while strengthening teaching efforts and student training. With more than 140 published articles and chapters, Dr. Minor is an expert in balance and inner ear disorders. Through neurophysiological investigations of eye movements and neuronal pathways, his work has identified adaptive mechanisms responsible for compensation to vestibular injury in a model system for studies of motor learning (the vestibulo-ocular reflex). The synergies between this basic research and clinical studies have led to improved methods for the diagnosis and treatment of balance disorders. In recognition of his work in refining a treatment for Ménière's disease, Dr. Minor received the Prosper Ménière Society's gold medal in 2010. In the medical community, Dr. Minor is perhaps best known for his discovery of superior canal dehiscence syndrome, a debilitating disorder characterized by sound- or pressure-induced dizziness. In 1998 Dr. Minor and colleagues published a description of the clinical manifestations of the syndrome and related its cause to an opening (dehiscence) in the bone covering the superior canal. He subsequently developed a surgical procedure that corrects the problem and alleviates symptoms. In 2012, Dr. Minor was elected to the National Academy of Medicine, formerly the Institute of Medicine.





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### **Piotr Moncarz**

ADJUNCT PROFESSOR, STANFORD UNIVERSITY; SENIOR FELLOW EXPONENT; CHAIRMAN, US-POLISH TRADE COUNCIL; CHAIRMAN, ELECTROMOBILITY POLAND SA; NATIONAL ACADEMY OF ENGINEERING

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Dr. Piotr Moncarz is a Member of National Academy of Engineering, an Adjunct Professor at Stanford University and a Senior Fellow Engineer at Exponent, Inc., a publicly held engineering and scientific consulting company with some 400 Ph.D.'s on its staff, over 20 offices in the US and international offices in Germany, UK, Switzerland, and China, specializing in solving problems with science and technology in their nature. He is Chairman of the Board and co-founder of US- Polish Trade Council. He served as Academic Director of the Top 500 Innovators program at Stanford University. For many years he has been closely associated with the shale gas global question. He has conducted energy policy studies focusing on gas for Central Asian Republics and Bangladesh, and numerous studies associated with the energy sector in Poland and Russian Federation. He is a Member of American Water Works Association (AWWA). Dr. Moncarz is a Chairman of the Board of Directors of Electromobility Poland SA.



### **Kathryn Moler**

VICE PROVOST AND DEAN OF RESEARCH AND PROFESSOR OF APPLIED PHYSICS AND OF PHYSICS

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Academic Appointments: Professor, Applied Physics; Professor, Physics; Member, Bio-X; Principal Investigator, Stanford Institute for Materials and Energy Sciences; Member, Wu Tsai Neurosciences Institute. Administrative Appointments: Vice Provost and Dean of Research, VPDOR (2018 - Present), Senior Associate Dean for the Natural Sciences, Humanities and Sciences Deans Office (2016 - 2018), Chair of the Faculty Senate, 47th Senate of the Academic Council (2015 - 2016), Director, Stanford Nano Shared Facilities (2008 - 2016), Co-Founder and Director, Center for Probing the Nanoscale, an NSF Nanoscale Science and Engineering Center (2004 - 2011). Honors & Awards: Sapp Family University Fellow in Undergraduate Education, Stanford University (2014-); Richtmyer Award for "Outstanding Leadership in Physics Education", American Association of Physics Teachers (2011); APS Fellow, American Physical Society (2008-); SIAM Stanford Student Chapter Professorial Award, Society of Industrial and Applied Mathematicians (2004); Packard Fellow, Packard Foundation (2001-2006); Presidential Early Career Award for Scientists and Engineers, United States government (2000); CAREER Award, National Science Foundation (1999-2003); Alfred P. Sloan Research Fellow, Alfred P. Sloan Foundation (1999-2001); William L. McMillan Award, UIUC (1999); Frederick E. Terman Fellow, Stanford University (1998-2001); R.H. Dicke Postdoctoral Fellow, Princeton University (1995-1998).

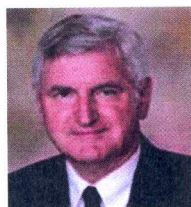


**Ryszard Naskręcki**

Vice-Rector for Science and International Cooperation of the Adam Mickiewicz University in Poznań

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Professor ordinarius, Faculty of Physics, Adam Mickiewicz University in Poznań, Poland. **Degrees:** M.Sc. in Physics, Adam Mickiewicz University in Poznań, Poland, 1983; Ph.D. in Physics, Adam Mickiewicz University in Poznań, Poland, 1992; D.Sc. (habilitation) in Physics, Adam Mickiewicz University in Poznań, 2000; Titular Professor, 2010; Full Professor, Adam Mickiewicz University in Poznań (AMU), from 2011. **Research interests:** Experimental Physics, Optical spectroscopy, Vision Science. **Other professional experience:** Deputy Dean and the Dean of the Faculty of Physics, AMU, 2002-20012; Vice-Rector of AMU for Research and Foreign Affairs, from 2016. **Scholarships:** University of Lille, France, 1995-1996; CEA Paris-Saclay, France, 1993-1994, 1996-1998. **Visiting researcher:** University of Lille, University of Rennes (France), CEA Paris-Saclay; >50 short visits in many European universities. **Research output:** > 100 research articles; >150 conference presentations; 5 promoted doctors (Ph.D). Many reviews in doctoral dissertation.

**Andrzej S. Nowak**

PROFESSOR, ELTON AND LOIS G. HUFF EMINENT SCHOLAR CHAIR (STRUCTURAL), DEPARTMENT CHAIR, AUBURN UNIVERSITY

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Education: PhD, Civil Engineering, Politechnika Warszawska, Warsaw, Poland, 1975; M.S., Civil Engineering, Politechnika Warszawska, Warsaw, Poland, 1970. Academic Experience: Auburn University, Professor and Chair, 2013–present; Auburn University, Elton & Lois G. Huff Eminent Scholar Chair, 2013–present; University of Nebraska, Robert W. Brightfelt Professor of Engineering, 2005–2013; University of Michigan, Professor, 1990-2004; University of Michigan, Associate Professor, 1984-1990; University of Michigan, Assistant Professor, 1979-1984; State University of New York at Buffalo, NY, Assistant Professor, 1978-1979; University of Waterloo, Canada, Research Associate, 1976-1978. Current Membership in Professional Organizations: American Society of Civil Engineers (ASCE), American Concrete Institute (ACI), Precast/Prestressed Concrete Institute (PCI), Transportation Research Board (TRB), Polish Academy of Sciences – Civil Engineering (PAN). Honors and Awards: Fellow of the American Concrete Institute (ACI), 1996; Fellow of the American Society of Civil Engineers (ASCE), 1996; Fellow of the International Association for Bridge and Structural Engineering (IABSE); Honorary Professor of Politechnika Warszawska, 1996; Honorary Professor of Politechnika Krakowska, 2002; Canadian Society of Civil Engineering, Casimir Gzowski Medal for paper on Calibration, 2009; ASCE Moisseiff Award for the paper on Calibration of LRFD Bridge Code, 1997; Excellence in Research Award, University of Michigan, 1990; Bene Merentibus Medal, Politechnika Warszawska, 2005; Order of Polonia Restituta by President of Poland, 2014; Emeritus Member of the Transportation Research Board, 2014. Service Activities: Auburn University Member, NCAT Board of Directors, 2014–present; External to Auburn University TRB Committee on Long



Term Bridge Performance, member, 2011-present; Voting Member, ACI-ASCE Committee 343 Concrete Bridges, 1982–present; Voting Member, ACI Committee 348 Safety of Structures, 1982–present.

Andrzej S. Nowak is also a President of the Council of Polish Engineers in North America. The mission of this Council is to support and promote the professional advancement of Polish-North American engineers and scientists and advocating international cooperation. To support the Polish engineering organizations in Northern America in activities of advancing engineering knowledge and skills. The main goals are: to integrate Polonian and Polish engineering communities in Poland and abroad, to enhance prestige of Polish engineers in Northern America through popularizations of Polish engineering and scientific achievements, to support the development of the Hall of Fame of the outstanding Polish Engineers, to support the development of the Data Base of Polish engineers in Northern America, to support the Polish Engineering communities in the East Europe.



**Jerzy Orkiszewski**

**PRESIDENT, US-POLISH TRADE COUNCIL**

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Mr. Jerzy Orkiszewski was born and raised in Poland. He holds an M.S. degree in Biomedical Engineering from the Warsaw Technical University, Department of Fine Mechanics (currently Department of Mechatronics) and École Nationale Supérieure de l'Electronique et de ses Application in Cergy, France, and submitted his Ph. D. thesis at the Warsaw University of Technology. Since 1989 he resides in California with his wife, a practicing medical doctor from Warsaw, and their daughter who after completing her medical education in Poznań, Poland, practices medicine in the USA. In Silicon Valley he has been working for variety of product development biomedical device companies: Cutera, Inc., Ellex Medical, Lumenis, Inc. and Medical Group of Coherent, Inc., where he has been providing the technology and business leadership serving in various engineering, management and executive positions. Jerzy used to be on Polish national modern pentathlon team and plays classical guitar. He is also a pilot with commercial and instrument ratings. Jerzy is a contributing editor of "Przegląd Lotniczy - Aviation Review" aviation magazine in Poland. He provides to USPTC a strong link to the US biomedical technology sector.



**Debra Satz**

**VERNON R. AND LYSBETH WARREN ANDERSON DEAN OF THE SCHOOL OF H&S, THE MARTA SUTTON WEEKS PROFESSOR OF ETHICS IN SOCIETY AND PROFESSOR, BY COURTESY, OF POLITICAL SCIENCE Philosophy**

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Academic Appointments: Professor, Philosophy; Professor (By courtesy), Political Science. Administrative Appointments: J. Frederick and Elisabeth Brewer Weintz University Fellow in Undergraduate Education, Bass University Fellows Program (2013 - 2023); Senior Associate Dean, Stanford (2010 - 2017); Faculty Director, McCoy Family Center for Ethics in Society (2008 - 2015); Marta Sutton Weeks Professor of Ethics





in Society, Stanford University (2007 - Present); Professor of Philosophy, Stanford University (2007 - Present). Honors & Awards: Honorary Fellow, American Academy of Arts and Sciences (2018-); Honorary Doctorate, Erasmus University, The Netherlands (2018); President, American Society for Political and Legal Philosophy (2013-2016); Principal Investigator: Spencer Foundation Grant, Spencer Foundation (2010-2013); Roland Prize for Faculty Service, Stanford University (2010). Professional Education: B.A., City College of New York, Philosophy (1978); PhD, MIT, Philosophy (1988).



**Iwona Skoczko**

**Vice-Rector for Education of the Bialystok University of Technology**

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Prof. Iwona Skoczko graduated from the Faculty of Civil and Environmental Engineering of the Białystok University of Technology (BUT) currently holds the position of Vice-Rector for Education at BUT. Her scientific achievements include over 200 papers (manuscripts in journals, monographs and chapters in monographs and popular-scientific studies). Her research interests focus on water technology and water purification, especially filtration. Prof. Skoczko's activities are primarily of a practical nature, which results in many patent applications and implementations in real water treatment plants. She is an expert for public administration units, municipal and industrial companies in the water and wastewater management sector. She is actively involved in The Polish Academy of Science and Polish, State Water Management Board. She helps the Ministry of Science and Higher Education, Ministry of Water Management and Inland Navigation, the National Fund for Environmental Protection and Water Management and the National Intelligent Specializations. She is actively involved in the Polish Association of Sanitary Engineers and Technicians.



**Mirosław Słomiński**

**Warsaw University of Technology Rector's Proxy for Business Partnership**

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Dr. Mirek M. Slominski, MEngSc and PhD (summa cum laude), both in Electronics and Telecommunications earned from Faculty of Electronics and Information Technology of the Warsaw University of Technology (FEIT-WUT) in 1977 and 1984, respectively. He has been with the Institute of Telecommunications of FEIT-WUT since 1980, being involved in research and teaching in Electronics & Telecommunications and, for 20 years, in charge of managing the university telecommunication activities as the Deputy Director for Research, then Academic Affairs and recently General Affairs as well as the WUT Rector's Proxy for Business Partnership (since 2012). His main research interests include coding, block synchronization, fault-tolerant communication systems, low-latency networks and resilience broadband multimedia network systems. He was the principal investigator of Development of Information Transfer Techniques Program 02.16 - for State Committee of Basic Research, design and implementation of Fiber Optic Transmission Systems - for TELKOM-PZT Corp., Creating of Discrete Power Spectra for FSK - for



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University of Hagen, Prometheus/Pro-Com - as Visiting Research Fellow at Télécom ParisTech (also known as École Nationale Supérieure des Télécommunications), TEMPUS JEP-0069 - in joint project collaboration with University of Surrey and the French Télécom Grandes Écoles, Failure-tolerant Communication Networks - as Visiting Senior Research Fellow at Australian Telecommunications Research Institute, Self-Healing Broadband Network Systems - as the Principal Investigator and Project Leader at Computers & Communications Media Research Labs of NEC Corp. The achieved results he published in over 100 research papers, reports, book chapters, several (national or international) patents received and presented during over 40 invited research talks given in Europe, Japan, USA and Australia.



### **Agnieszka Stefaniak-Hrycko**

Deputy Director of the Polish National Agency for Academic Exchange

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Agnieszka Stefaniak-Hrycko - Graduate of the Faculty of Applied Social Sciences and Resocialisation and the Faculty of Polish Studies of the University of Warsaw as well as of postgraduate studies in administration and management at the University of Warsaw, Kozminski University in Warsaw and Collegium Civitas. In the years 2003-2017 she worked at the Ministry of Science and Higher Education, first in expert and later in managerial positions. She was responsible for matters related to the ministry's cooperation with scholarly and academic circles, the Sejm and the Senate as well as to the promotion of research and higher education in Poland and abroad. In subsequent years, as Deputy Director of the Department of Science at the Ministry, she dealt with funding international cooperation projects as well as programmes and undertakings of the Minister of Science. She has authored or co-authored the Minister's programmes supporting young scientists and scholars in the areas of humanities and social sciences as well as devoted to international cooperation and social responsibility of science. She was granted scholarship in the programme International Visitor Leadership Program of the US Department of State. At NAWA, she has been responsible for creating programmes for PhD candidates and researchers since the Agency's foundation.



### **Tomasz Szapiro**

Chair of the CRASP Accreditation and Rankings Committee

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Tomasz Szapiro M.Sc. in Physics (Warsaw University), Ph.D. in Mathematics (Polish Academy of Science), Habilitation and Professor's title in Economics. Tenured Professor at SGH Warsaw School of Economics, the SGH Rector in term 2012 - 2016. Since 2018 Member of the Board of National Council for Science and Higher Education and the Head of Commission for Education. Since 2016 Member of the Board of Conference of Rectors of Academic Schools in Poland (CRASP) and the Head of CRASP Commission for Accreditations in Rankings, since 2016. Since 2016 the Member of Board of Conference of Rectors of Academic Schools in Poland (CRASP) and the Head of CRASP Commission for Accreditations in Rankings. The Adjunct Professor at Carlson School of Business, Carlson School of Management, University of Minnesota. Research interests: Decision Analysis Methods, Negotiation Support Procedures, Economics





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of Education, Economics of Privacy. The author and co-author of six books and numerous articles. Advisory Activities: the Member of Board of the Economic Award of the President of Poland 2013-2015, the Member of the Advisory Committee of the Strategic Economic Thought (for Deputy Prime Minister of Poland and Minister of Economy), the Member of the Commission for Research and Innovation, Polish Olympic Committee. Vice-President of Confederation of Rectors of Economic Universities in Poland. General Co-Chair of the INFORMS GDN 2015 Conference and the member of program councils of science festivals. The leader of high-budget projects (PHARE, HESP, PALP), the coordinator of teams in EU projects (ALIPRO, TAMI), the cooperation with private sector (Aviva Pension Fund, Commerzbank, E&Y, McKinsey, BCG, T-Mobile, Era) and public sector (Ministry of Science and Higher Education, Ministry of Energy/Economy). The member or chairman of the Ministerial Committees granting scholarships and chairman of the Selection Committee of "Polityka". The Laureate of awards for the organizational, scientific and teaching achievements. Recipient of the "Master" subsidy of the Foundation for Polish Science. Twice Excellence in Teaching Award of Canadian Executive MBA Program. Four Awards of The Ministry of Science and Higher Education. Awarded the Knight's and Officer's Crosses of the Order of the Rebirth of Poland.



**Krzysztof Szczerba,**  
**SENIOR STAFF ENGINEER, FINISAR CORP.**

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Dr. Krzysztof Szczerba is a globally recognized expert in optical communications. He specializes in high speed optical interconnects used in mega scale datacenters and supercomputers. In his interdisciplinary work he combines information and communications theory, signal processing, optoelectronic device physics, in particular Vertical Cavity Surface Emitting Lasers (VCSELs) and high speed radio frequency engineering. He has demonstrated numerous transmission speed records in optical interconnects. His recent research interests include machine learning and neural network modeling. He has authored numerous peer reviewed publications in leading journals and talked as invited speaker at most important conferences in the industry. Apart from research he has been very actively involved in research commercialization and entrepreneurial projects. Collaboration and knowledge transfer between industry and academia has been an ever-present part of his career from the very beginning. He is an alum of the Technical University of Lodz in Poland, Technical University of Denmark and Chalmers University of Technology in Göteborg, Sweden. He is fluent in Swedish and has a great interest in Scandinavian history and culture.



**Jan Szmidt**  
**Rector of the Warsaw University of Technology, President of**  
**Conference of Rectors of Academic Schools in Poland**

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Professor Jan Szmidt, Ph.D., D.Sc., President of the Conference of Rectors of Academic Schools in Poland (CRASP) for the current term (2016 – 2020), Rector of the Warsaw University of Technology (2012–2016, 2016–2020), is a graduate of the Faculty of Electronics and Information Technology, Warsaw University of Technology (1976), an electronics specialist and Professor of Technical Sciences. In years 2002 – 2005 and



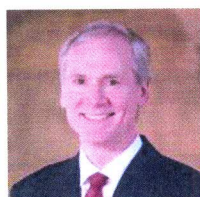


2008 – 2012, Professor held the respective positions of Vice Dean and Dean of the Faculty of Electronics and Information Technology. He earned a doctorate at the University in 1985, and in 1995, in reward for his academic achievement and in recognition of a paper titled "Plasma-generated DLC coatings for applications in microelectronics", obtained postdoctoral qualification and the title of Doctor Habilitatus. He was conferred the title of Professor of Technical Sciences in 2005. He contributed to a variety of research programmes and did internships at the Institute of Electron Technology, Semiconductor Research and Manufacturing Centre CEMI in Warsaw and Carnegie Mellon University in Pittsburgh, USA. His scholarly output includes authorship and co-authorship of two monographs and ten chapters in Polish and English language books, i.a. NATO ASI Series, Kluwer Academic Publishers, Elsevier and over 580 academic publications including 100-plus contributions to such journals as Diamond Related Materials, Thin Solid Films, Journal of Crystal Growth, Chaos Solutions & Fractals, Solid State Electronics, Applied Physics Letters and Surface Science, as well as almost 200 papers delivered at international academic conferences. He has been part of several international research projects, is an author or co-author of 14 patent applications and 50-plus reports from research projects, has been a member of programme and organising committees for a couple of dozen conferences. He has supervised 12 doctoral dissertations and is presently supervising another couple of PhD students. For his achievement, he was awarded the award of Division IV – Technical Sciences PAS (1997) as well as a number of awards from Rector of the Warsaw University of Technology – for academic achievement, organisational effectiveness or teaching process. He collected awards at invention and innovation shows in Pittsburgh, London, Budapest and Damascus. He has reviewed over 26 PhD and postdoctoral (habilitation) theses and a number of title or promotion applications at technical universities across Poland.

**Tad Taube****HONORARY CONSUL OF POLAND, TAUBE INVESTMENTS**

Bay Area businessman Tad Taube is the chairman of Taube Philanthropies and board president emeritus of the Koret Foundation in San Francisco. He is chairman and founder of the Woodmont Companies, a diversified real estate investment and management organization. At his alma mater, Stanford University, Mr. Taube is founder and advisory board chair of the Taube Center for Jewish Studies, established in 1986. He is a member of the Board of Overseers of the Hoover Institution and serves on its Executive Committee, and was founder and past chairman of the advisory board of the Stanford Institute for Economic Policy Research (SIEPR). In addition, Mr. Taube is past chair of the Stanford Athletic Board. His involvement in Stanford Athletics includes his family's principal gift to Stanford's Taube Family Tennis Stadium and his significant support of Stanford's new football stadium, built in 2006. He has served as trustee of the University of Notre Dame de Namur, the University of San Francisco, and as governor of The Hebrew University in Jerusalem, and was chairman and CEO of Koracorp Industries (successor to Koret of California) from 1973 until its merger with Levi Strauss in 1979. Born in Kraków, Poland, in 1931, Tad Taube immigrated to the United States in the summer of 1939, just months before the outbreak of World War II. In 2003, Mr. Taube established a philanthropic program - the Jewish Heritage Initiative in Poland (JHIP) - which supports the revitalization of Jewish culture in now-democratic Poland. In 2007, the Republic of Poland named Mr. Taube Honorary Consul for the San Francisco Bay Area. In June 2015, then President of the Republic of Poland Bronislaw Komorowski awarded Taube the Commander's Cross of the Star of the Order of Merit, Poland's highest level official state distinction for a foreign civilian, which Taube adds to his Commander's Cross of the Order of Merit, received in 2004. Mr. Taube holds BS and MS degrees from Stanford University and served as an officer in the U.S. Air Force.



**Marc Tessier-Lavigne****PRESIDENT OF STANFORD UNIVERSITY**

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Pioneering neuroscientist, biotechnology executive and academic leader Marc Tessier-Lavigne became Stanford University's eleventh president on September 1, 2016. Dr. Tessier-Lavigne was born in Trenton, Ontario, Canada. He received undergraduate degrees in physics from McGill University and in philosophy and physiology from Oxford University, where he was a Rhodes Scholar. He earned a Ph.D. in physiology from University College London (UCL) and performed postdoctoral work at UCL and at Columbia University. He then held faculty positions at the University of California, San Francisco (UCSF) and subsequently at Stanford University, where he was the Susan B. Ford Professor in the School of Humanities and Sciences. While at UCSF and Stanford he was also an investigator with the Howard Hughes Medical Institute. A world leader in the study of brain development and repair, Dr. Tessier-Lavigne's research has focused on the cause and treatment of degenerative brain diseases such as Alzheimer's and Parkinson's, as well as on therapies for spinal cord injuries. Dr. Tessier-Lavigne and his colleagues revealed how neural circuits in the brain form during embryonic development by identifying molecules that direct the formation of connections among nerve cells. Defects in these mechanisms lead to neurological disorders. These mechanisms also provide targets to assist regeneration of nerve connections after trauma. His contributions have been recognized by numerous prizes and honors, including his election as a Member of the National Academy of Sciences (USA), the National Academy of Medicine (USA), and the American Philosophical Society and as a Fellow of the Royal Society (UK), the Royal Society of Canada, the Academy of Medical Sciences (UK), the American Association for the Advancement of Science, and the American Academy of Arts and Sciences. In 2003, Dr. Tessier-Lavigne was recruited to biotechnology company Genentech, where he became Executive Vice President for Research and Chief Scientific Officer, directing 1,400 scientists in disease research and drug discovery for cancer, immune disorders, infectious diseases, and neurodegenerative diseases, while maintaining an active research laboratory. In 2011, Dr. Tessier-Lavigne became President of The Rockefeller University, a leading biomedical research university in New York City. At Rockefeller, Dr. Tessier-Lavigne worked with faculty, students, staff and trustees to develop and execute a nine-year strategic plan focused on junior and mid-career faculty recruitment; enhancement of graduate and postdoctoral education; establishment of interdisciplinary research programs and acquisition of advanced research instruments; expansion of the university's translational medical infrastructure; and a \$500 million, two-acre campus expansion project in the heart of Manhattan that broke ground in 2015. Early in his tenure as Stanford president, Dr. Tessier-Lavigne, in partnership with Stanford Provost Persis Drell, launched a long-range planning process that led to the announcement of a new strategic vision for Stanford's future in spring 2018. Built on more than 2,800 ideas received from across the Stanford community, the vision sets priorities across four areas: values, research, education and community. Now in its design phase, the long-range vision promises to chart a purposeful course for the university in its continued efforts to spark knowledge and creativity, advance learning, and accelerate impact for the benefit of humanity. At a national and international level, Dr. Tessier-Lavigne has been an active spokesperson for societal support of science, through editorials, advocacy and congressional testimony. Dr. Tessier-Lavigne serves on several scientific advisory, non-profit, and corporate boards. He has cofounded two start-up companies, targeting neurological disease and neurodegenerative disease.





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### **Weronika Tomczyk**

Weronika Tomczyk is a 3rd year Ph.D. student in the Department of Anthropology and Stanford Archaeology Center. She received both her BA (2013) and MA (2016) from the University of Warsaw, Poland. Her Ph.D. project concerns the Wari Empire's (modern Peru) ecological imperialism and animal management, investigated through standard zooarchaeological and stable isotope analyses, as well as geometric morphometrics.



### **Tomasz Trawiński**

**Vice-Rector for Infrastructure and Promotion of the Silesian University of Technology**

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Dr hab. Eng. Tomasz Trawiński, prof. PS - Vice-Rector for Student Affairs and Education of the Silesian University of Technology in 2016-2019, Vice-Rector for Infrastructure and Promotion of the Silesian University of Technology 2019-2020. Over the past 9 years, he has been conducting intensive research on problems related primarily to the modelling of branched kinematic chains of hard disk drives positioning systems, electromechanical transducers used in biomedical engineering, the use of homogeneous transformations in the modelling of energy recovery systems, the design of torque converters and drilling techniques using torsional vibrations. In addition, he deals with methods of inverting block matrices. He is the author and co-author of 3 monographs, 3 patent applications and 3 patents, author and co-author of 175 scientific articles. Dr hab. Eng. Tomasz Trawiński, prof. PS, has made 62 reviews of articles for scientific journals and conference materials, among others for Applied Mathematical Modeling (4 reviews), IEEE Transaction on Mechatronics (9 reviews), Bulletin of the Polish Academy of Sciences (3 reviews), COMPEL (9 reviews), The Applied Computational Electromagnetics Society (ACES). Dr hab. Eng. Tomasz Trawiński, prof. PS is active in the area of applying for and obtaining funds for scientific research, was the head in 4 grants of the Polish Ministry of Science and Higher Education, 2 grants was the contractor. He was a contractor in one grant under the 7th EU Framework Program (FurnitReuse project). Currently, he is the university coordinator of the INDIRE (Information Driven Incident Response) project, a European project under the Coal and Steel Fund. Dr hab. Eng. Tomasz Trawiński, prof. PS is an expert of the Mechatronics Section of the Machine Building Committee of the Polish Academy of Sciences and a member of the Metrology Commission at Katowice in the years 2019-2022. He works intensively with the socio-economic environment, is a member of the team for the implementation of the "Strategy for Solving Social Problems of the City Gliwice for 2016-2025" at the City Hall in Gliwice. Dr hab. Eng. Tomasz Trawiński, prof. PS has been awarded many times by the Rector of the Silesian University of Technology: team Rector's first degree Award for didactic achievements (2011), individual Rector's second degree Award for scientific achievements (2012), Rector's team first degree Award for didactic achievements (2013), Rector's Award for scientific achievements of the third degree (2014), team Rector's first degree team Award for scientific achievements (2015), individual Rector's Awards for organizational achievements 2016, 2017, 2018. Currently, he is the Vice-Rector for Infrastructure and Promotion and the head of the Department of Mechatronics at the Silesian University of Technology.





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### **Brendan M. Walsh**

**DIRECTOR, OFFICE OF INTERNATIONAL AFFAIRS, OFFICE OF  
INTERNATIONAL AFFAIRS**

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Engaged in international education since 1997, and currently focus on the impact that globalization and global awareness has on international higher education. Specialties: Global Education Development, Strategic Planning, International Affairs, International Agreements, Assessment and Evaluation, Project Management, Knowledge & Change Management, Web Strategy and Service Oriented Web Development. As the Director, Brendan is focused on international issues of long-term, strategic importance to the University. His goal is to help the university develop strategy and services that make it easier for faculty and students to carry out dynamic international research. In response to the impact globalization is having on higher education, Brendan works with schools and departments to develop creative ways to promote interdisciplinary research that addresses global issues. Brendan currently staffs the President's "Global Advisory Council" and leads Stanford International Response Team. Brendan has been engaged in international education since 1997, and has a Ph.D. in International Development Education.



### **Jennifer Widom**

**FREDERICK EMMONS TERMAN DEAN OF THE SCHOOL OF  
ENGINEERING, FLETCHER JONES PROFESSOR IN  
COMPUTER SCIENCE AND PROFESSOR OF ELECTRICAL  
ENGINEERING**

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Jennifer Widom is the Frederick Emmons Terman Dean of the School of Engineering and the Fletcher Jones Professor in Computer Science and Electrical Engineering at Stanford University. She served as Computer Science Department Chair from 2009-2014 and School of Engineering Senior Associate Dean from 2014-2016. Jennifer received her Bachelor's degree from the Indiana University Jacobs School of Music in 1982 and her Computer Science Ph.D. from Cornell University in 1987. She was a Research Staff Member at the IBM Almaden Research Center before joining the Stanford faculty in 1993. Her research interests span many aspects of nontraditional data management. She is an ACM Fellow and a member of the National Academy of Engineering and the American Academy of Arts & Sciences; she received the ACM-W Athena Lecturer Award in 2015, the ACM SIGMOD Edgar F. Codd Innovations Award in 2007, and a Guggenheim Fellowship in 2000.



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**Mirosław Wielgoś**  
**Rector of the Medical University of Warsaw**

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Prof. Mirosław Wielgoś, MD, PhD (b. 1965 in Zamość, Poland) is the Rector of the Medical University of Warsaw for the 2016-2020 term of office. Specialist in gynecology, obstetrics and perinatology, Professor Wielgoś serves as the Head of the First Department and Clinic of Obstetrics and Gynecology at the Medical University of Warsaw; National Consultant in Perinatal Medicine; President of the Polish Society of Gynecologists and Obstetricians (formerly Polish Gynecological Society); Regional Director of the Ian Donald School for Eastern Europe; Vice President of the World Association of Perinatal Medicine; (2017-2018) Secretary General of the European Association of Perinatal Medicine, Executive Board Member of the European Association of Perinatal Medicine and the International Society of The Fetus as a Patient. Professor Wielgoś has played a key role in popularizing modern diagnostics and treatment of hemolytic disease of the newborn in Poland, implemented the method of laser ablation of placental anastomoses in twin-to-twin transfusion syndrome (TTTS) in the Mazowsze region, and introduced the FETO procedure in fetuses with congenital diaphragmatic hernia as well as fetoscopic repair of spina bifida to clinical practice in Poland. Initiator of the “Alliance for Safe Labour,” Professor Wielgoś is also a co-author of the specialization programme in perinatology, standard medical procedures in selected pregnancy pathologies as well as numerous clinical guidelines in obstetrics and gynecology.



**Joanna Wysocka**  
**LORRY LOKEY PROFESSOR AND PROFESSOR OF  
DEVELOPMENTAL BIOLOGY Chemical and Systems Biology**

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Academic Appointments: Professor, Chemical and Systems Biology; Professor, Developmental Biology; Member, Bio-X; Member, Institute for Stem Cell Biology and Regenerative Medicine; Member, Stanford Cancer Institute; Member, Wu Tsai Neurosciences Institute. Honors & Awards: Valkhof Chair Award, Radboud University Nijmegen, the Netherlands (2017); Investigator Award, Howard Hughes Medical Institute (2015); Harland Winfield Mossman Award in Developmental Biology, American Association of Anatomists (2013); Vilcek Prize for Creative Promise, Vilcek Foundation (2013); ISSCR Outstanding Young Investigator Award, International Society for Stem Cell Research (2010). Professional Education: postdoctoral education, The Rockefeller University, Chromatin Biology (2006); PhD, IBB Polish Academy of Science & Cold Spring Harbor Laboratory, Biochemistry (2003); MSc, Warsaw University, Molecular Biology (1998).



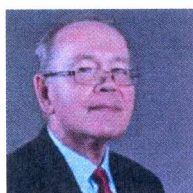


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### **Ireneusz Zbiciński**

**Vice-Rector for Science of the Lodz University of Technology**

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Ireneusz Zbicinski was graduated at Lodz University of Technology, Faculty of Chemical Engineering in 1977. Completed Ph. D. at the same Faculty in 1981. From 2001 works as a Full Professor. Completed scientific and industrial training at: Chemical Plants „Anilana” Lodz, Poland, International Center of Heat and Mass Transfer, Minsk, Belarus, Electricity Research and Development Center, Capenhurst, U.K., University of Birmingham, U.K., Washington State University, Pullman, USA. Holder of Qilu Friendship Award granted by Government of Shendong Province, China, Award for the “Excelence in Drying Research” 2010. Took part in than 24 international and domestic scientific projects e.g. for Procter&Gamble, Cabbot, IFPRI, Henkel, Anwil, Chemat etc. Lectures at universities and industrial labs in USA, France, Germany, Holland, Sweden, Japan, China, Brazil, etc. Member of steering committee of EU INTERREG IIIB project Watersketch (2004-2007) and Waterpraxis (2008-2011), GPEE (2012-2015), INREP (2014-2017), INVITES (2016-2018), MONSUL-Norwegian Funds (2014-2016), INREP-Horizon 2020 (2015-2018), HIPERION, Horizon 2020 (2019-2023), etc. Member of Baltic University Programme Board (Uppsala University, Sweden) 2004-; member of Committee of Chemical Engineering PAS, 2007-; Working Party of Drying in a frame of EFChE, 2006- . Supervisor of 16 PhD students. H=16. Author and co-author of over 80 papers from JCR.



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## POLISH UNIVERSITIES

### Warsaw University of Technology

**Warsaw University of Technology** builds upon the traditions of Polish technical universities that used to function in Warsaw – the Polytechnic Institute founded in 1826 thanks to the efforts of Stanisław Staszic and the School of Hipolit Wawelberg and Stanisław Rotwand established in 1895. Warsaw University of Technology started on its own in 1915 thanks to the efforts of the Association for Scientific Courses and the Citizens' Committee of the City of Warsaw. Working uninterruptedly, the University has been producing generations of graduates and has had an increasing number of scientific and technical achievements. It is not only the oldest, but also the best technical university in Poland; in the ranking of Polish universities, it has taken the first place in its category for nine years. At Warsaw University of Technology, over 180 student research groups, organisations and associations are active, and the educational offer includes more than 30 fields of study (also with English as a medium of instruction).



**Silesian University  
of Technology**

**The Silesian University of Technology (SUT)**, is the oldest technical university in the region and one of the most prestigious in Poland. It was established in 1945 as a scientific and educational facility for Upper Silesia, the most industrialized area in Poland, and one of the most industrialized in Europe. For over 70 years of its history, it has always been a public institution, playing a cultural and opinion forming role in the region. 15 educational units of the University – 13 faculties, one college and a scientific-didactic centre – currently offer almost 60 study programmes and about 200 specializations, including the whole spectrum of engineering studies. Aside from technical programmes, candidates may also study administration, business analytics, mathematics, sociology and management – including project management – as well as foreign languages and pedagogy.



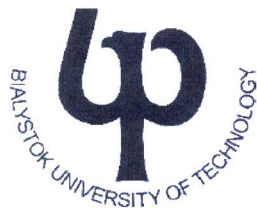
**UNIVERSITY OF SILESIA**  
IN KATOWICE

**University of Silesia in Katowice** is one of the largest and most dynamically developing public universities in Poland. Founded in 1968, the University of Silesia quickly established a reputation as a vibrant academic institution and an important interdisciplinary research hub. With a tradition of launching new programmes to best meet the needs of rapidly changing labor markets, the University of Silesia offers students a variety of programs and specialized fields of study. The University of Silesia in Katowice gives its students a unique possibility to develop their interests, fulfil their passions and gain practical skills necessary in constantly changing job market. Every academic year we offer over 70 programmes and over 240 specializations, that are designed to help our students and alumni meet the challenges of changing reality and labor market. We provide a stimulating learning environment where individual interests can be pursued and academic ambitions achieved. The University of Silesia serves almost 25,000 intramural and extramural students and it already has 250,000 proud alumni, among which there are outstanding personalities in many fields. Our community consists also of more than 2,000 teachers and researchers.





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**Bialystok University of Technology (BUT)** was established in 1949 and has a long tradition of educating engineers and young scientists. Now we have nearly 8,500 students and 660 teachers – experts in their fields. Bialystok University of Technology has 7 Faculties (Departments): Faculty of Architecture, Faculty of Civil and Environmental Engineering, Faculty of Electrical Engineering, Faculty of Computer Science, Faculty of Mechanical Engineering, Faculty of Engineering Management, and Faculty of Forestry in Hajnowka (due to its specialization located in the town of Hajnowka, at the heart of Bialowieza Primeval Forest). Bialystok University of Technology offers 27 attractive courses (programmes). Some of them are conducted in English: *Construction and Building Systems Engineering, Logistics, Mechatronics, and Management*. Bialystok University of Technology offers 1st degree (Bachelor's or Engineer's), 2nd degree (Master's) and 3rd degree (PhD) studies, postgraduate studies, as well as training and language courses.



**POZNAN UNIVERSITY OF TECHNOLOGY**

**Poznan University of Technology (PUT)** grew out of the State School of Mechanical Engineering which was established in 1919. Currently, it is one of the leading technical universities in Poland which has become one of the most recognized landmarks of the region and even the whole country. Today Poznan University of Technology offers education at 10 faculties which provide students with a choice of 30 fields of study. 16,000 students of I and II cycles, Phd students and participants of post-graduate programmes receive education here. More than 1,300 academic staff care about their education. Implementation of PUT's mission enables the vision to become reality - to be one of the best technical universities in Poland, which aspires to become an equipollent partner of other European schools in terms of education quality and high level of scientific research.



**MEDICAL  
UNIVERSITY OF WARSAW**

**The Medical University of Warsaw (MUW)** is one of the oldest medical schools in Poland. For over 200 years it has provided education and training in medicine and pharmacy at undergraduate and postgraduate levels. MUW's programs meet the highest international standards of university-level education and are based on the principles of good clinical and pharmaceutical practice. The academic staff of the Medical University of Warsaw are recognized nationally and internationally for their contributions to the research and practice in medicine. Many of them hold the prestigious posts of National Medical Consultants. The Medical University of Warsaw provides general and specialty training at both undergraduate and postgraduate levels. Students learn at our six clinical teaching hospitals who provide general and tertiary medical care to patients. Our students and staff also conduct scientific and clinical research at these hospitals as well as are involved in a number of clinical academic departments located in other hospitals in Warsaw. MUW offers 19 degree programs including 3 full-time degree programs in English: Dentistry, Medicine, Pharmacy.



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ADAM MICKIEWICZ  
UNIVERSITY  
POZNAN

**Adam Mickiewicz University in Poznań** is the major academic institution in Poznań and one of the top Polish universities. Its 100-year old high reputation is founded on long tradition of higher education and the outstanding current achievements of its staff, students and graduates. Adam Mickiewicz University offers numerous courses in English, German and other languages - even Esperanto! The choice of programmes is very wide starting from Polish Studies (especially designed for foreigners) to highly specialised programmes in biotechnology or environmental protection - both funded by the European Social Fund, including scholarships.



Lodz University of Technology

**Lodz University of Technology** is a well-established higher education institution with an evolved structure. Prospective students have nine faculties to choose from as well as many additional units which enable interdisciplinary studies, provide study support, foreign language instruction, entertainment and sports. Lodz

University of Technology is proud to have been educating engineers for 75 years.



POLISH NATIONAL AGENCY  
FOR ACADEMIC EXCHANGE

**NAWA** is a new institution that was established on October 1st, 2017. It is set up to coordinate state activities driving the process of internationalization of Polish academic and research institutions. The mission of NAWA is to foster the development of Poland in the area of science and higher education. NAWA goals: support international mobility of

students, academics and researchers, support the process of internationalization of Polish HEIs and research institutions, promote Polish science and higher education, promote and popularize teaching of the Polish language.