

Nomination of Dr. Stanislaw M. Pietruszko for the Zayed Future Energy Prize.

Dr. Stanislaw M. Pietruszko is widely recognised as an outstanding and inspirational leader in the field of photovoltaics (PV) in Poland and Europe. He possesses a unique passion and a clear vision of solar power for the long-term future of energy, which drove on-going work and new initiatives. He dedicated his life to this idea and was involved in many fields and aspects of PV. His activities are aiming to promote the widespread use of photovoltaic energy as a realistic, reliable and economically reasonable source of electricity and are a valuable contribution to development of a cleaner, more balanced and sustainable energy mix in Europe and Poland.

His fascination with solar electricity started in India where he spent more than 3 years in the Tata Institute of Fundamental Research (TIFR) in Bombay and obtained a Ph. D from the University of Bombay (in 1981). He graduated from the Warsaw University of Technology, Department of Electronics (in 1971). He is also an alumnus of University of Cambridge, UK. His 44-years career is characterised by continuous evolution from fundamental and applied research on solar cell's materials and processing, PV modules and systems, through technology management and development, to legal-administrative involvement, dissemination, as well as educational and promotional activities.

Dr. S. M. Pietruszko is an academic teacher and scientist at the Warsaw University of Technology. He published over 160 scientific papers (over 250 citations), attended countless conferences and cooperated with scientific institutions around the globe. His main research achievement is proving, together with Indian scientists, that amorphous silicon, which is used for thin film solar cells, is more stable when obtained from diluted silane. This discovery had a clear, significant and positive impact on the photovoltaic industry in the development of thin film technology. The paper in Applied Physics Letters 37(1980)572 was cited 103 times. The conducted research provided information about degradation mechanisms in amorphous silicon solar cells.

He always stood at the forefront of innovation. In 2007, after many years of intense work, a breakthrough was made in Polish photovoltaic research. Dr. S. M. Pietruszko efforts led to the creation of PV Centre, which obtained funding for a 35-kW PV facade, equipped with state-of-the-art meteorological and environmental conditions' monitoring systems with data-acquisition. Also in-door and out-door laboratories were established with high-class measuring equipment for solar cell testing, as well as devices for module and system climate performance evaluation. The project cost was approx. 2,5 mil EUR and was funded by ECOFUND, the Municipality of Warsaw, European Commission, Polish Ministry of Science and the Warsaw University of Technology. This made PV Centre the best equipped facility in Central-Eastern Europe, which provided opportunities for cooperation with world's top research institutions, as well as participation in EU projects. PV Centre became a leading research facility focused on development of photovoltaics, allowing it to join the mainstream of advanced technologies aimed at natural environment protection and introduced this innovative field to the Polish economy. This facilitated technology transfer and helped to close the knowledge gap between Poland and highly-developed countries. Furthermore the PV Centre is organising expert meetings, workshops and training, as well as dissemination of environmental issues.

PV Centre also serves as an educational centre, allowing students to work with real photovoltaic cells, modules and systems. PV Centre participated in Science Fairs and Earth Days showcasing PV applications. Dr. Pietruszko teaching achievements include more than 60 students who obtained B. Sc., M. Sc. or Ph. D degree under his guidance. These efforts have been recognised, resulting in admission of PV Centre to the association of European Renewable Energy Centres (EUREC). The European Commission recognised PV Centre as Centre of Excellence in Poland (NNE5-2002-00019 from 28.10.2002), confirmed by the Ministry of Scientific Research and Information Technology (decision 134/E-365/CD/DFS-21/2004 from 16.09.2004). In march 2006 PV Centre became the proxy for the Ministry of Science and Higher Education in management and coordination of national science network (POL-PV-NET).

In August 2005 Dr. S.M. Pietruszko organised BEST Summer Course 2005 workshop on photovoltaics “How to do it again, again, again... Renewable Sources of Energy” for 27 foreign students, members of the BEST organisation, consisting of lectures, practical classes and a tour of PV systems installed in Warsaw vicinity.

Dr. S. M. Pietruszko has been a project leader or co-ordinator more than 50 research grants funded by European Commission (4, 5, 6 Framework Programme for RTD), project from PHARE Programme, US Department of Energy – 2 grants in cooperation with NREL, 3 projects with US DOC (Ecolinks), projects in bilateral governmental cooperation with Japan, Korea, China, Thailand, India, Brazil, Russia), as well as 50 projects from national sources (Polish Ministry of Science and Higher Education, Warsaw University of Technology Ecofund), In addition, he coordinated several projects researching possibilities and obstacles of the PV development in Central Europe over the last 10 years, supporting EU new-member states energy policy (list of projects in Annex).

Always his main goal was ensuring proper introduction of photovoltaics in Poland by research, technological development, market growth and education.

Dr. S. M. Pietruszko pioneering work and ideas provided cornerstones of design and implementation of PV systems in Poland, such as:

- 1999 - first PV powered road signal in Poland (now widely replicated in tens of thousands)
- 2001 - first grid-connected PV system in Poland (1kW on the roof of Primary School in Warsaw. It is the longest working and monitored PV system in Poland)
- 2007 - first PV facade in Poland (34 kW at Warsaw University of Technology)

Apart from technology and implementation related activities, he is also involved in the legal-administrative part of photovoltaics, focusing on barrier identification and reduction, which resulted in first Polish study "Legal and administrative barriers in the investment process of photovoltaic systems in Poland" within PV LEGAL from European Union CIP/IEE Framework (and later in it's successor PV GRID project, exploring issues of grid-integration of PV systems). He also took part in preparation of reports on the current status, perspectives, advisory papers, recommendations and strategy of developing renewable energy in Poland, as well as investigation of the legal, administrative, and financial environment for introducing PV in Poland.

Dr. S. M. Pietruszko is Polish Parliament's and Senate's expert in the field of Renewable Energies. This enabled him to play a role in preparing Poland's legal framework - RES Law. He also takes part in creation of Polish PV support system, the PROSUMENT Programme - the first Polish PV support scheme as a consultant for NFOŚiGW (The National Fund of Environmental Protection and Water Management). He always provided support and guidance to governmental representatives and other stakeholders relevant to shaping the energy sector policies. His activities convinced many decision makers to the beneficial attributes of PV.

Dr. S. M. Pietruszko expertise is highly valued. He is a member of the Steering Committee of the European Photovoltaic Technology Platform since 2007, as well Program Committees of different photovoltaic and renewable energy conferences (e.g. European Photovoltaic Solar Energy Conference). He cooperates closely with relevant authorities on European and national level, being an EC expert on renewable energy, Polish observer to the International Energy Agency (IEA) implementation agreement on Photovoltaic Power Systems (PVPS). He is a member of many Polish and international organisations (listed in Annex).

Dr. S. M. Pietruszko was chosen by IRENA / Abu Dhabi Fund for Development (ADFD) to be an expert evaluator and evaluation group leader.

His efforts in developing and promoting photovoltaics in Poland were acknowledged and recognised throughout

the years. Jerzy Buzek member of the Committee on Industry, Research and Energy and Temporary Committee on Climate Change, later The President of European Parliament strongly recommended the project "Centre for Photovoltaics in Poland at the Warsaw University of Technology" for the Sustainable Energy Europe Award in the category "Promotional, Communication and Educational Actions". Similar recommendations were given by the Ministry of Science and Higher Education, Prime Minister of Poland W. Pawlak, Mayor of Warsaw H. Gronkwicz-Waltz and former Minister of Environment Prof. M. Nowicki. Personal achievement awards include: Award of the Ministry of National Education for the achievements in research (1990), 4 awards of the Rector of Warsaw University of Technology (1981, 1985, 1988, 1999), POLECO Fairs title of Promotor of Renewable Energy (2012, Czysta Energia), RENEXPO 2012 title "Outstanding Personality" for promotion of photovoltaics, Polish Chamber of Commerce First Degree Honorary Diploma EKOROZWÓJ (Ecodevelopment).

To empower the impact on furthering the adoption of renewable energy and fostering sustainable development a non – governmental organisation Polish Society for Photovoltaics (PV POLAND) was established in 2005 from the initiative of Dr. Pietruszko and he is leading the organisation as President since then. The Society means to encourage the integration of PV energy into Poland's research, economy and everyday life, as well as rational use of energy. The mission of PV POLAND is strongly connected to sustainable development and decrease of impact of energy use on the environment. According to international obligation the share of renewables in primary energy production must be increased while cutting the CO2 emissions. Actions of PV POLAND help to fulfil these obligations and provide proper place of photovoltaics among other renewable energy sources.

Dr. S. M. Pietruszko leadership in dissemination and promotion of photovoltaics and other renewable energies include organising conferences (e.g. 5 editions of International Photovoltaic Conference in Poland), discussion forums and meetings with authority representatives and relevant energy sector stakeholders to help Polish photovoltaics make an important, positive impact on Polish society, environment and energy security. Dr. Pietruszko conducted PV workshops as early as 2004-2005, when photovoltaics was virtually unknown in Poland. He organised SOLTRAIN - Photovoltaics Training Courses in New Member Countries in cooperation with Fraunhofer Institute for Solar Energy Systems in Freiburg, concerning dissemination of knowledge on photovoltaics, as well as design and installation of PV systems in selected countries of Central and Eastern Europe and also Train the Trainer Workshop in Freiburg, Germany. These courses were held in cooperation with Austrian ARSENAL Institute for Renewable Energy. These endeavours resulted in a lot of useful teaching material. Dr. Pietruszko also envisaged and designed a "100 Solar Roof Schools" programme to promote photovoltaics among the youth.

Concerned with the quality of PV system implementation, as Polish PV market began to emerge, Dr Pietruszko created The Training Centre of Polish Society for Photovoltaics (in 2014), which obtained accreditation (no. 00001) from the Office of Technical Inspection (UDT) and is now conducting certified PV installers' training, as well as other PV related courses (also for OSD employees, supporting better grid-integration of PV systems in Poland). Education conducted there will ensure that Poland will possess a solid basis of highly qualified professionals and experts in the field of photovoltaics, as this technology will progress and become more and more important as a part of Polish economy. Moreover Dr. Pietruszko demonstrated commitment to furthering the renewable energy industry as a whole, through advocacy, stakeholder engagement, standards development etc.

Dr. S. M. Pietruszko holds significant international experience and for over 30 years maintained close contacts scientists from all over the world, including India and its scientific institutions (e.g. Tata Institute of Fundamental Research, Bombay; Indian institute of Science, Bangalore; National Physics Laboratory, New Delhi). Similarly very fruitful cooperation has been performed with Republic of Korea (Kyunghee University in Seoul, Korean Institute of Energy Research in Taegu) since 1995 which gave 13 joint papers. Dr. Pietruszko paid numerous visits to these countries and was hosting Indian and Korean scientists in Poland. His international collaborations include Japan, China, Thailand, Brazil, Russia and many more. These activities were parts of different intergovernmental programs of scientific and technical co-operation. He has also attended countless

conferences and visited many top research facilities and institutions worldwide. Dr. Pietruszko became senior associate member of ICTP (International Centre for Theoretical Physics in Trieste, Italy), which gave him the opportunity to interact and exchange experiences with scientists from Asia, Africa and the Middle East.

He has also been involved in a international help programme utilising PV: "The improvement of life conditions and readership support among the youth by solar lighting systems in two towns of South Sudan" (2010). This endeavour resulted in creation of 175 PV systems, adding to the socio-economic well-being of the communities and bringing transformative quality and education.

During the years of his career Dr. S. M. Pietruszko brought substantial insight to the development of PV in EU new member states, where photovoltaics was still in its infancy. He was promoting renewable energies when they were very new in his country and many hadn't taken them seriously. Through the years, his personal prestige attracted and convinced decision makers in Poland to the concept of photovoltaics. Today, in the dawn of Polish PV market, development of which Dr. Pietruszko inspired and helped to forge, people look up to him and his mature guidance for a better renewable future of Poland and Europe.

PERSONAL AND PROFESSIONAL INFORMATION

1. Family name: PIETRUSZKO
2. First names: Stanislaw Marian
3. Date of birth: 14 September 1948
4. Nationality: Poland
5. Civil status: Married, two children (33 and 30 years old)
6. Address: ul. Pralatońska 5/50 03-510 Warsaw
7. Telephone: +48226798870, +48605099781
8. E-mail: pietruszko@pv-polska.pl

Education (higher degree):

- M. Sc. of Electronic Engineering - Warsaw University of Technology, Department of Electronics, 1966-71,
- Warsaw University of Technology, Postgraduate College in Pedagogy, 1971,
- Ph. D. (Science) Tata Institute of Fundamental Research and Univ. of Bombay, India, 1977-1981. Title acknowledged by Warsaw University Technology as equal to the title of Doctor of Technical Science.

SCIENTIFIC EMPLOYMENT

- Warsaw University of Technology, Faculty of Electronics and Information Technology, Institute of Microelectronics and Optoelectronics (IMiO) (formerly: Institute of Electron Technology) from 01.01.1972 till 01.03.2006, successively as: assistant, senior assistant, associate professor. From 01.03.2006 until 31.01.2010 Centre for Photovoltaics (Coordinator), from 31.01.2010 –back in IMiO
- alumnus of University of Cambridge, UK (1988)

GRANTS AND PROJECTS

Project leader or co-ordinator of more than 50 research grants:

European Commission:

1. "Building Integration of Solar Technologies" INCO-COPERNICUS z 4th EU RTD Framework Programme (1998-2001)
2. PROSPECT - Promotion and Simulation of PV Energy Conversion Technologies (EC ICOP-DISS-2163-96);
3. BIST - Building Integration of Solar Technologies (EC ICOP-DEMO-4080-98);
4. Electronic Structure of Amorphous Silicon, DoE, NREL USA;
5. Metastability in Amorphous Silicon, US DOE, NREL USA;
6. Photovoltaics in the Suburban Environment, U.S. Dept. of Commerce, NREL, BP Solar, and ECOLINKS;
7. PV Centre - Photovoltaic Centre of Competence in Poland, EC FP5 RTD (NNE5-2002-00019);
8. PVNET - Development of a roadmap for PV R&D in the EL, EC FP5 RTD (NNE5-2000-00548);
9. PV-EC-NET - Coordination of European and National RTD Programmes for PV Solar Energy, EC FP5 RTD (NNE5-2001-00201);
10. PV-NAS-NET - Coordination of NAS and European Union RTD Programmes on PV Solar Energy (as a coordinator), EC FP5 RTD (NNE5-2002-00046);
11. ENERBUILD - Network Energy in the Built Environment, EC FP5 RTD (ERK6-CT-1999-20001);
12. SOLTRAIN - Photovoltaic Training Courses in EU Candidate Countries, Altener Programme, EC (ALT- 2002-067);
13. PV-Enlargement - Technology Transfer, Demonstration and Scientific Exchange Action for the Establishment of a strong European PV Sector, EC FP5 RTD (NNE5-2001-00736);
14. PV-ERA-NET - Networking and Integration of National and Regional Programmes in the Field of PV Solar Energy RTD in the ERA, EC FP6 RTD (ERAC-CT-2004-011814);
15. BIPV CIS - Improved Building Integration of PV by using Thin Film Modules in CIS Technology, EC FP6 RTD (SES6-CT-200-503777);
16. PV Catapult - European Collaboration for identification of PV research and market opportunities, socio-economic studies, performance assessment and disassessment of PV and PV thermal technology, EC FP6

RTD (SES6-502775);

17. Grants from the Ministry of Science
18. Grants from the Warsaw Univ. of Technology
19. EKOFUNDUSZ: Photovoltaic Centre at Warsaw University of Technology. Grant agreement 1340/460/III/06 – grant amount 4,5 mln PLN
20. Environmental Protection Office of the Capital City of Warsaw: Installation of a photovoltaic system on the south facade and roof of the building of the Faculty of Environmental Engineering, ul. Nowowiejska 20 and the roof of Radio Engineering building of The Faculty of Electronics and Information Technology, ul. Koszykowa 75 - agreement U-139/2004/G from 02.12.2004 – amount 0,9 mln PLN

State Committee for Scientific Research:

21. "Centre of Excellence Photovoltaics in Poland" - decision 134/E – 365/SPB/Cooperation with 5.PR/DZ 295/2002
22. "Centre of Competence: Centre of Photovoltaics in Poland", decision 134/E- 365/SPB/5.PR UE/DZ 81/2003-2005
23. "PV Dissemination: Technology transfer, demonstration and scientific exchange for establishing a strong European photovoltaics sector" - decision 134/E- 365/SPB/5.PR UE/DZ 167/2003-2006
24. "Energy in build-up areas" - decision 134/E- 365/SPB/5.PR UE "Sieci"/DZ 629/2002
25. "Coordination team for European and national (candidate countries) solar energy RTD programmes - decision 134/E- 365/SPB/5.PR UE/DZ 72/2003- 2004
26. "Coordination team for solar energy programmes of EU and new member states - PV -NAS-NET, decision 134/E - 365/SPB/Cooperation with 5.PR/DZ 432/2002
27. Coordination team for European and national (candidate countries) solar energy RTD programmes - PV- EC-NET," decision 134/E- 365/SPB/5.PR UE/DZ 168/2002
28. "Photovoltaic network - PV development strategy - PVNET" - decision
29. Improvement of building integrated photovoltaics abilities by application of thin film CIS modules - decision 134E-365/6.PR UE/DIE 240/2005-2007 - 134/E - 365/SPB/5.PR UE "Sieci"/DZ 173/2002
30. European cooperation for identification of market and research possibilities for the development of photovoltaics and socio-economic studies for status evaluation and dissemination of photovoltaics and photo-thermal technology- decision 134/E-365/6PR UE/DIE 178/2005

Rector Grants:

- Rector Warsaw University of Technology Grant - Research on phosphorus doping and hydrogen content impact on amorphous silicon stability (2000-2001)
- Rector Warsaw University of Technology Grant - Research on small hydrogen content on transport parameters of amorphous silicon
- Dean of The Faculty of Electronics and Information Technology of Warsaw University of Technology Grant - Development of monitoring procedures for stand-alone PV systems

Other

- WUT statutory activity: Research on relaxation of dark conductance of amorphous silicon (2000)
- WUT statutory activity: Development of methodology principles of PV systems' parameter measurements (2002)
- "Metastability of Amorphous Silicon" from II Marii Skłodowska Curie Polish-American Fund (z cooperation with National Renewable Energy Laboratory, USA (1999- 2002)
- PHARE Fund: Partner search for the application to the 5th FP concerning PV system application in Poland (1999)
- Design of monitoring system for PV powered D6 traffic signal from the General from General Directorate for National Roads (1999-2000).

MEMBERSHIPS

- member of the Section of the Microelectronics of the Committee for Electronics and Telecommunication of the Polish Academy of Sciences (2008 -)
- member *American Physics Society* (1987-)
- member *Materials Research Society USA* (1987-)
- member *International Solar Energy Society* (1988-)
- member *International Association for Solar Energy Education* (1992-)
- member *American Solar Energy Society* (2005-)
- member founder *World Renewable Energy Network* (1992-)
- member SPIE (2008-)
- Senior Associate of the *International Centre for Theoretical Physics*, Trieste, Italy (1991-)
- member of the Managing Board of the Polish Solar Energy Society (1999-)
- Silver Member of International Solar Energy Society (ISES)
- expert European Commission (5, 6 i 7 Framework Program RTD),
- expert Program ALTENER (1999-)
- member observer IEA PVPS Implementation Program (ExCo, Task I) (1999-)
- President of the Central Europe International Energy Foundation Regional Headquarters (2001-), President of the Polish Society for Photovoltaics (2005-)
- member of the Steering Committee of the European Photovoltaic Technology and Innovation Platform (2005-),
- candidates nominator for Japan Price (1995-)
- member Policy Committee European Photovoltaic Association (EPIA) (2008-),
- member Scientific Program Committee and International Advisory Board PV Solar Energy Conference (2000-),
- member Program Committee of the World Renewable Energy Conference (1992-),
- member International Advisory Board of the ENERGEX (1995-);
- Polish Parliament and Senates Expert on Renewable Energy
- member of Solar Energy Working Group at Polish Ministry of Environment
- deputy chairman of the Technical Committee of Polish Committee of Standards no 54 - Polish photovoltaics standards preparation and IEC standards review
- referee *Electron Devices Letters IEEE*
- referee of numerous national articles on renewable energy sources

MEMBER OF SCIENTIFIC COMMITTEES

- World Renewable Energy Congress (WREC): - I (1990), II (1992), III (1994) Reading, UK; IV (1996 - Denver), V(1998 - Florence), VI (Brighton - 2000), VII (Cologne 2002), VIII (Denver 2004) IX (Florence 2006);
- International Energy Congress ENERGEX:, Seoul, Korea - 1994, Beijing, China - 1996, Mamaya, Bahrain - 1998, Las Vegas, USA - 2000, Kraków, Polska – 2002; Lizbon, Portugalia – 2004, Stavanger, Norwegia – 2006, Singapore – 2007.
- International Photovoltaic Science and Engineering Conferences - 2002 - 2005
- European Photovoltaic Solar Energy Conference and Exhibition
- Polish Renewable Energy Sources Forum - 1997 - 2005
- Programme Council World Renewable Energy Network Bulletin.
- Programme Council of Polska Energetyka Słoneczna magazine.
- Scientific Committee Polish Renewable Energy Sources Forum - from 1997
- Member (Polish observer) of sessions of Executive Committee Implementation Agreement Photovoltaic Power Systems (PVPS) International Energy Agency (IEA) and Task Sessions:

- Task I. Exchange and dissemination of information on photovoltaic power systems (2001)
- Task 7. Photovoltaic power systems in the built environment (1999 - 2002)
- Task 8. Very large scale photovoltaic power generation systems in remote areas (2002)
- Session Moderator at multiple conferences

PARTICIPATION IN CONFERENCES

- International Energy Agency (IEA) Photovoltaic Power System (PVPS) Task 1 Experts Meeting, Kyoto (1999)
- Renewable Energy Forum, Poland: Jadwisin (1999), Łódź (2000).
- IEA PVPS Task 1 Workshop on PV Added Values, Sapporo, (1999)
- IEA PVPS Task 7 Experts Meeting, Linz, (1999)
- IEA PVPS Task 7 PV Integration Concepts Workshop, Lausanne, (1999)
- IEA PVPS Executive Committee Meeting, Sacramento, (2001) i Sophia Antipolis (2002)
- Seminar on Solar Electricity from Building Environment, Stockholm, (1999)
- World Sustainable Energy Conference, Sustain'99, Amsterdam, (1999)
- ISES 1999 Solar World Congress, Jerusalem, Israel, (1999)
- E-MRS Conference on Photovoltaics, Cracow, (1999)
- EuroSUN, Copenhagen (2000)
- European Science Foundation Research Conference on "Photovoltaic Devices" (2000-128), Berlin-Teltow, Germany (2000);
- European Science Foundation Research Conference on "High Efficient Solar Cells", Tomar, Portugal, (2001)
- European Photovoltaic Solar Energy Conference and Exhibition: Glasgow (2000), Munich (2001).
- World Renewable Energy Congress: Kolonia (2002).
- ISES Congress, Goeteborg, Sweden (2003).
- IEEE Photovoltaic Specialists Conference: Anchorage (2000).
- International Energy Conference ENERGEX, Kraków (2002).
- Photovoltaic Engineering and Science Conference, 11th - Sapporo, (1999), 12th - Cheju, Korea (2001).
- Forum Eco-business, Poznań (2000), (2001)
- PV in Europe: From PV Technology to Energy Solutions. International Conference, Rome, Italy, 7-11 October (2002)
- Workshop on "Renewable Energies in Candidate Countries: Supporting the EU Enlargement Process" 25-26 November 2002, EC Joint Research Centre, Ispra, Varese, Italy
- Joint Workshop of the Thematic Networks PVNET, PV-EC-NET and PV-NAS-NET and the European Photovoltaic Industry Association EPIA, Towards a Shared European Vision on the Future of PV Research, Market, Industry and Policy, 12 - 13 February 2003, Ljubljana, Slovenia
- II National Conference on Renewable Energy Sources, Wrocław, 25.04.2003.
- International Conference on Amorphous and Liquid Semiconductors: Salt Lake City (1999), Nice (2001).
- International Workshop on the Physics of Semiconductor Devices: India (1999)
- Materials Research Society Spring Meeting, San Francisco, USA (2001).
- European Materials Research Society Spring Meeting, Strasbourg (2003).
- Polish Conference on Electron Technology ELTE, 2000.
- European Photovoltaic Solar Energy Conference and Exhibition: Rome (2003), Munich (2004), Paris (2004), Barcelona (2005), Dresden (2006), Milan (2007).
- World Renewable Energy Congress: Denver (2004).
- 31 IEEE Photovoltaic Specialists Conference: Lake Buena Vista, USA (2005).
- Photovoltaic Engineering and Science Conference, 14th - Bangkok (2004), 15th – Shanghai (2005).
- 4th World Conference on Photovoltaic Energy Conversion and Exhibition, Waikoloa, USA (2006)
- International Energy Agency (IEA) Photovoltaic Power System (PVPS), Experts joint Meeting of Task 1 and Task 10 in Lyon (2005)
- European Science Foundation Research Conference on Photovoltaic Devices: Photovoltaics and Environment, Granada, Spain (2005)
- International Conference on Amorphous and Liquid Semiconductors: Beckenridge, USA (2007),

- Polish Conference on Electron Technology ELTE, 2004.
- INTERSOLAR Messe und Forum, Freiburg, Niemcy, 2005, 2006
- Austrian Presidency Conference on European Technology Platforms (2006)
- SEMICON i 2nd APVM Trade Fair - International Advanced Photovoltaic Manufacturing Technology Conference (2006)
- 2nd Czech Photovoltaic Conference, Brno (2006)
- Conference and Exhibition Communicating European Research – CER 2005, Brussels
- School of Optoelectronics – Photovoltaics: Solar Cells and Detectors” – 12-16/10 2003,
- “Solar, Wind, Hydrogen Fuel Cells, SWH International Conf. 2003” Segovia, 07 – 10.07.2003.
- “Summer School of Microtechnology”, Politechnika Łódzka, Instytut Elektroniki, 24-26/09 2003, Łódź.
- Energy Future of Enlarged European Union – perspectives for R&D” w dniach 07 – 08 10 2004 in Warsaw. Joint initiative of Germany, France and Poland.
- International conference: “Management of solar electricity systems in distributed energy generation network”, 25 – 27/05 2005, Joint Research Centre, Ispra. W
- “Infrastructures for Energy Research”, 31/05 – 1/06 2005, Brussels
- “Renewable Energy Sources in Action” in Brussels 20-23/11 2005
- “Odnawialne Źródła energii w programach naukowo-badawczych i rozwojowych w Polsce” organised by Polish Ministry of Economy 2/12 2005.
- “Polish Science and Technology Forum” 15 - 16/09 2003, Paris.
- FORUM "Ukraine and Poland together in the European Union's scientific programs", Lviv, 20-21 /05 2004 organised by: Lvov Centre for Scientific, Technical and Economic Information (LvCSTEI),
- “EUREC General meeting in DGTREN” 24 – 26/02 2005, Brussels.
- “Meeting of European Photovoltaics Technology Platform”, 8 – 11/05 2005, Brussels.
- CER2005 – Communicating European Research”, 12-16/11 2005, Brussels.
- INTERSOLAR Europe in Munich – from 2007 to 2015

RESEARCH INSTITUTE VISITS

Chiny – 9 razy: (1986, 1990, 1996, 1997, 2005, 2011, 2 x 2012, 2014)

Taiwan – 1 raz: (2007)

Hongkong i Macao – 2: (1999, 2004)

Wyjazdy te dotyczyły głównie konferencji, ale również były wykonywane w ramach co-operation under the Protocol of China-Polish Joint Committee on Science and Technology to the Intergovernmental Agreement on Scientific and Technical Cooperation

Japonia – 6: 1980, 1995, 1996, 1997, 1999, 2000

Korei Południowa – 9: (1993, 2 x 1995, 2 x 1996, 1997, 2 x 1998, 1999,)

Korea Północna – 1: 1986

Tajlandia – 3: (1978, 1980)

Malezja – 1: (1995)

Singapur – 2: (1995, 1996)

- Tata Institute of Fundamental Research, Bombay, India (1981 -2010 co najmniej raz rocznie).
- National Renewable Energy Laboratory, Golden, CO, USA: (1992 – 2010, co najmniej raz rocznie),
- International Centre for Theoretical Physics, Trieste, Italy, as Associate Member (1999).
- Korea Institute for Energy Research, Taejon, Korea: (2002).
- Kyung Hee University, Department of Physics, Seoul, Korea (1999), (2000), (2001), (2002).
- Universidade de Sao Paulo, Escola Politécnica, Laboratorio di Microelectronica, Sao Paulo, Brazil, as visiting professor (1999), (2001).
- Department of Physics, Gifu University, Gifu, Japan (1999), (2001).
- Hiroshima University, Research Center for Integrated Systems, Department of Electrical Engineering, Hiroshima, Japan (1999), (2001).
- Polytechnic University, and City University, Hongkong (1999)
- Sacramento Municipality Utility District (2001)
- Tuscon Electric Power (2001)
- Long Island Power Authority (2001)
- BP Solarex, Headquarter, Baltimore, MD and Frederic's Facility, MD, (2000), (2001).

- Technical University of Ljubljana, Slovenia (2003).
- Fraunhofer Institute for Solar Energy Systems, Freiburg, Germany (2003)
- WIP, Munich, Germany (2003).
- National Renewable Energy Laboratory, Golden, CO, USA: (2004), (2007).
- Tata Institute of Fundamental Research, Bombay, India (2006, 2007).
- Indian Institute of Sciences, Bangalore (2006, 2007)
- National Physical Laboratory (New Delhi (2007)
- International Centre for Theoretical Physics, Trieste, Italy, as Senior Associate Member (2006, 2007).
- Korea Institute for Energy Research, Taejon, Korea: (2005), (2006).
- Kyung Hee University, Department of Physics, Seoul, Korea (2004), (2005), (2006).
- Polytechnic University, and City University, Hongkong (2004)
- Fraunhofer Institute for Solar Energy Systems, Freiburg, Germany (2004), (2005), (2006), (2007)
- Joint Research Centre, Ispra (2004, 2005)

COOPERATION WITH RESEARCH INSTITUTES

- National Renewable Energy Laboratory (NREL), Colorado, USA;
- Joint Research Centre, Ispra;
- FRANHOFER ISE, Freiburg, Germany;
- ARSENAL, Vienna, Austria;
- SENTERNOVEM, Utrecht, Netherlands

OTHER WORKSHOPS AND SEMINARS

- EUREC Agency event: "FP7 priorities for the renewable energy sector", 1 – 2/03 2005, Brussels, co-organisation
- Workshop on Strategy Research Agenda in Photovoltaics 25-26.10.2006, Warsaw

HOSTING IAESTE INTERNSHIP STUDENTS

- Markku Antero Valkonen student of Helsinki of University of Technology IAESTE summer internship in PV Centre - from 1/07 to 31/08 2005.
- Amine Charfeddine student of University of Rabat, Tunisia IAESTE summer internship in PV Centre - from 1/07 to 31/08 2005.

List of publications

Monographs

S.M.Pietruszko, 26 Datareviews in: "Properties of Amorphous Silicon", EMIS Datareviews Series No.1 (2nd edition), INSPEC/IEE, London, 1989, ISBN 0-85296-480-3. These Datareviews are also available on-line on INSPEC/EMIS Service distributed by ESA-IRS System (see additional page).

Papers

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