



XX IEEE-SPIE Conference

**Photonics and Electronics for High Energy Physics Experiments,
Astronomy, Accelerator Technology and Free Electron Lasers**

WILGA 2007, 21-27 May (<http://wilga.ise.pw.edu.pl>)



Photographs of participants of XX IEEE-SPIE WILGA Symposium on Photonics Applications done during successive days. Professors participating in the XX WILGA Symposium: prof. Zbigniew Jaroszewicz-Institute of Applied Optics, Warsaw; prof. Małgorzata Suchańska – TUV of Kielce; prof. Jan Domin – TUV of Rzeszów; prof. Andrzej Filipkowski, prof. Leszek Opalski, prof. Jan Ogrodzki, prof. Tomasz Woliński, prof. Tadeusz Morawski, prof. Antoni Grzanka, prof. Tomasz Adamski, prof. Ryszard Romaniuk– Warsaw Univ. of Technology; prof. Jan Wójcik – UMCS Lublin; prof. Leszek Jaroszewicz –WAT Warsaw; prof. Marek Sadowski, prof. Grzegorz Wrochna – IBJ Świerk; prof. Sergio Tazzari – Tor Vergata Univ.Roma; dr Bhaskar Mukherjee – DESY Hamburg; prof. Michał Różycka-CAMK Warsaw; prof. Wojciech Plandowski- Warsaw University.

Aims and Topical Area of IEEE-SPIE WILGA Symposium

During the week of 21-27 May, in the WILGA village near Warsaw, a woodland resort owned by the Warsaw University of Technology was hosting a jubilee XXth joint IEEE-SPIE Symposium WILGA 2007. The WILGA Symposium is an international meeting, embracing Poland, neighboring countries and IEEE R8, which is composed of several narrow-subject conferences. Major aim of the Symposium, which has been organized since 10 years now, twice a year, conversely in WILGA (each year end of May) and at the Faculty of Electronics and Information Technologies, Warsaw University of Technology (second half of January), is integration of national and international environment of Ph.D., M.Sc. students and young researchers, who work in the area of advanced applications of photonics and electronics, and particularly in these areas, which require the application of laborious and difficult modeling methods, simulation, identification, implementation and testing of components, devices and systems.

The major topical track of the Symposium concerns the newest developmental trends of photonics, electronics and information technologies in their most demanding practical applications (such as military, astronomy, fundamental research). The aim of the Symposium is, not the presentation of inspiring engineering work (though a number of such presentations is included in the program as an illustration of the developmental processes) but, a strong emphasis on contemporary methods of generation of intellectual property values in the abovementioned subjects. This term IP – Intellectual Property – and combined area get more and more a elementary foundation of the society basing on knowledge. Production and further development of a product is a separate subject. The main task is here creation of an advanced product consisting, in terms of an aggregated invested effort, in 80% from non-material values (software) and only in 20% from strictly material values (hardware). We assume here that the most interesting is undertaking big tasks, where the accumulated effort is above 10 person-years (PY) and sometimes is bigger than 100 PY or more. The costs of such tasks is very big, of the order of millions Euro. The results are also of considerable impact on current technologies.

A fundamental area of activities for the IEEE-SPIE WILGA Symposium are general questions of the following kind “How to undertake such big and advanced projects, of a very big IP load, in a university environment? Projects of this kind are offered, especially within the frames of European Research Area (ERA). We have to reach for young scientists, a considerable number of them. The ability to efficiently manage and coordinate the effort, to generate IP, of tens of M.Sc. and Ph.D., students and young researchers, is a prerequisite for undertaking such big projects by university teams. These coordination efforts take place in typical university conditions under the continuous flow of research workers and exchange of students’ generations through the research team involved in a concrete project. A core of the team are faculty members, external experts from research governmental institutions or industry and Ph.D. students, who were previously cooperating with the same group while realizing their M.Sc. theses, thus bound with this group for a longer period spanning even for 6-8 years. Additionally, in the case of small teams, which are not competent in the whole researched area of the project, it is necessary to create flat, sufficiently big, research structures of inter-laboratory, inter-departmental, inter-institutional, inter-university, and international character. Covering the whole area of the required competence is here a target to create a flat research structure consisting mainly of young researchers. It is to emphasize that some university teams show considerable inertia against these integration and flexible reconfiguration processes.

Traditionally debated applications of photonics, electronics and information technologies during WILGA, and relevant to the abovementioned problems are: algorithms of remote control for hardware, architecture and algorithms for large distributed measurement networks, simultaneous processing and multilevel triggering of large amounts of measurement data in algorithmically complex systems, modeling of phenomena, objects and systems, identification of objects and systems, algorithms for complex finite state machines, modeling of robotic management of experiments, etc. A unique feature of IEEE-SPIE WILGA Symposium are late night debate sessions, sponsored by IEEE, and devoted to management of large and long lasting research projects carried out by large and young university teams.

A research cycle in the large photonics and electronics systems under debate is the following: a proprietary, nonmaterial IP input of large value is being inbuilt into a material background. The hardware is composed of the following components: processors of the major three different types – CPU, FPGA and DSP, supplemented by memory resources, I/O buffers, data type converters and fast data links – internal and external. Optimal hardware structure of data processing is proportionally changing with the development of system components. However, the largest value of the system is attributed to successive programming layers: from the definition of hardware solution, via functionality modeling, object modeling, via intermediate software communications layers, middleware, to layers of the graphical user’s interface.

Participants, Organizers, Patrons and Sponsors of IEEE-SPIE WILGA Symposium

Since several years now, the Symposium has been gathering each time above 200 (and during the best years more than 300) M.Sc., D.Sc., students and young researchers from this country and internationally. Frequently enough, the Symposium hosts representatives of such research organizations like CERN, DESY, INFN, CEA, IN2P3, FNAL and European technical universities. Similarly to previous years, considerable delegations of technical universities attended topical sessions organized by themselves. WILGA 2007 Symposium hosted, among others, representatives from: Warsaw, Poznań, Opole, Gdańsk, Bydgoszcz, Zielona Góra, Kraków, Kielce, Lublin, Białystok, Łódź, Rzeszów, Gliwice, Hamburg, Rome, Geneva, Sofia. There were presented more than 170 papers in WILGA sessions and over 50 in Jachranka sessions.

The WILGA Symposium is organized under the high patronage of international professional organizations IEEE [www.ieee.org] and SPIE [www.spie.org] and their Poland Sections [[ieee.pl](http://www.ieee.pl)], [[spie.pl](http://www.spie.pl)], international institutions CERN in Geneva [www.cern.ch] and DESY in Hamburg [www.desy.de], and national institutes: Association of Polish Electrical Engineers – Polish Committee of Optoelectronics [www.sep.com.pl], Polish Academy of Sciences – Committee of Electronics and Communications [www.pan.pl], Warsaw University of Technology [www.pw.edu.pl] – Faculties of Physics [www.if.pw.edu.pl], Mechatronics [www.mech.pw.edu.pl] and Electronics and Information Technologies [www.elka.pw.edu.pl], Sołtan Institute of Nuclear Research in Świerk [www.ipj.gov.pl].

IEEE-SPIE WILGA Symposium is sponsored by the European FP6 programs run by the European Steering Committee of Accelerator Research and Development ESGARD [esgard.lal.in2p3.fr] – CARE – Coordinated Accelerator Research in Europe [care.lal.in2p3.fr] and ELAN – European Linear Accelerator Network [elan.desy.de]. Subject area of WILGA is combined with large research programs and the institutions which carry them: XFEL- European X-Ray Free Electron Laser [<http://xfel.desy.de/>] and Polish XFEL Consortium [<http://xfel.pl/>], ILC- International Linear Collider [linearcollider.org] and TESLA Consortium [<http://tesla-new.desy.de/>], LHC- Large Hadron Collider [cern.ch/lhc], CMS- Compact Muon Solenoid [cms.cern.ch]. The logos of

abovementioned organizations and programs, together with WILGA Village and Commune crest, our host of WILGA meetings, were displayed in the heading of this report.

WILGA Symposium is organized by the PERG/ELHEP Laboratory [<http://tesla.desy.de/~elhep/>] of the Institute of Electronic Systems of Warsaw University of Technology (WUT) [www.ise.pw.edu.pl]. This year, the Chairmen of the WILGA 2007 Organizing Committee were Ph.D. students Mr Dominik Rybka and Jarosław Szewiński, supported by around 20 PERG/ELHEP Group students. The co organizers of the WILGA Symposium are all IEEE and SPIE Student Branches in this country.

The Patronage Committee of WILGA Symposium consists of chiefs of the patronage institutions: prof. Jan Dorosz-Director of Ph.D. Study of Białystok Univ. of Technology; prof. Bogdan Galwas – Dean of the Faculty of Electronics and Information Technology, Warsaw Uni. of Technology; prof. Henryk Fiedorowicz – Director of the Institute of Optoelectronics, Military Academy of Technology; prof. Wiesław Woliński, member of PAS, Chair of The Committee of Electronics and Communications, PAS; prof. Tomasz Woliński – President of Polish Chapter of SPIE; prof. Andrzej Pacut – President of Poland Section of IEEE; prof. Grzegorz Wrochna – Director of The Sołtan Institute for Nuclear Problems in Świerk; prof. Jerzy Szabatin – Director of the Institute of Electronic Systems, WUT; prof. Marian P.Kaźmierkowski – Director of the Institute of Control and Industrial Electronics, WUT; dr Jacek Galas and dr Mariusz Litwin –vice-directors of the Institute of Applied Optics. The Patronage Committee guarantees the highest level of the research reports presented in WILGA.

The Scientific Committee of WILGA consists of professors present personally at the Symposium. The Committee reviews the papers and accepts them for publishing. Members of WILGA 2007 Scientific Committee are named under the photos opening this report.

Media Patronage and Publications of WILGA Symposium

Media patronage on the WILGA meetings of young researchers has a monthly research journal ELEKTRONIKA issued by the Association of Polish Electrical Engineers [<http://www.sigma-not.pl>]. Internationally, WILGA publishes its reports in IEEE Region 8 News [<http://www.ewh.ieee.org/reg/8/news/>].

The proceedings of WILGA are published in ELEKTRONIKA, Electronics and Telecommunication Quarterly by Polish Academy of Sciences. Several times these were special issues of the journals. Internationally, WILGA publishes in Proceedings of SPIE and in such journals like MST- Measurement Science and Technology [<http://www.iop.org/EJ/journal/MST>] and NIM- Nuclear Instrumentation Methods [www.elsevier.com/locate/nima]. A considerable success of WILGA 2006 was preparing almost 20 papers for a special issue of the MST Journal. With the works of WILGA there is combined an exceptional publication about the FLASH Laser. It was written by XFEL Consortium in co authorship of several persons from the PERG/ELHEP Laboratory and published in the June Issue 2007 of the NATURE Photonics [<http://www.nature.com/nphoton>].

Together with a dynamic development of the web, the publication methods of conference proceedings undergo a considerable evolution. SPIE resigns from the printed versions of the worldwide recognized, famous yellow photonics volumes, Proc. SPIE. Instead, similarly to other big international professional societies like IEEE (Explore web publication system), and OSA – Optical Society of America (Optics InfoBase web publication system) a complex Internet technical publication database is under development called SPIE Digital Library [<http://spiedl.org/>]. Publications in all these web based systems are fully indexed as they were in printed versions.

Topical Sessions of IEEE-SPIE WILGA Symposium

The IEEE-SPIE WILGA Symposium lasts traditionally the whole week, from Monday in the morning till Sunday evening. It is always the last week of May. WILGA consists of topically adjacent research conferences, which are subdivided to topical sessions. Only exceptionally, there are organized parallel sessions. An organizer of a topical session is a recognized expert in this field. She or he invites young scientists to the session, who are obliged to prepare and present original papers from their own work. WILGA 2007 consisted from the following topical tracks (called by us conferences): Web Engineering; Photonics Applications; Signal Processing and Radar Technology; Photonics and Electronics Systems in High Energy Physics Experiments, Astronomy and Accelerator Technology.

IEEE-SPIE WILGA 2007 was organized in the same time in two places: WILGA and Jachranka. A Conference on DSP and Radar Technology was organized in Jachranka by dr Krzysztof Kulpa from WUT. The remaining WILGA sessions were organized by the following persons: col. dr Zbigniew Patron, WAT – Lasers and Applications; prof. Antoni Grzanka, WUT – Biomedical Instrumentation; dr Ryszard Kisiel, WUT and IPJ – Packaging and Hybrid Integrated Circuit Technology; dr Michał Borecki, WUT – Optoelectronic Sensors; dr Jacek Galas i dr Dariusz Litwin, INOS – Applied Optics; dr Tomasz Starecki, WUT – Fast Pulse Electronics and Photoacoustics; dr Jerzy Weremczuk, WUT – Smart Sensors; prof. Jan Domin, Rzeszów Univ. Technology – Spectrographic Techniques, prof. Tomasz Woliński, prof. Andrzej Domański, WUT – Photonic Optical Fibers; dr Stanisław Jankowski, WUT – Optimal Learning Systems; prof. Leszek Opalski, WUT – European Programs SEWING and WARMER; prof. Lech Mankiewicz, CTF PAS, prof. Grzegorz Wrochna, IPJ – Program Pi-of-The-Sky; dr Ryszard Kisiel, WUT and IPJ – Linear Accelerators; prof. Marek Sadowski, IPJ – Thin Film Technology; prof. Jan Dorosz, Białystok Univ. Technology – Optoelectronics and Numerical Methods; mgr Aneta Michalkiewicz, Student Section of SPIE at WUT – Applied Optics; prof. Tomasz Adamski, WUT – Information Safety; dr Bhaskar Mukherjee, DESY – European X-Ray FEL – A Light of the Future. Ph.D. Students of PERG/ELHEP IES Laboratory, under the guidance of dr Krzysztof Poźniak, dr Maciej Linczuk and dr Michał Ramotowski have organized a few sessions on photonic and electronic systems for the superconductive accelerator technology and free electron lasers.

A special ceremonial session was devoted to the memory of the late professor Bogdan Paczyński. This session was combined with a conference on mysterious GRB and optical flashes of all the sky. Professor Bogdan Paczyński, member of the Polish Academy of Sciences, was a worldwide precursor of the evolution modeling of certain types of stars. A fascinating lecture about the life and work of prof. B. Paczyński was delivered by prof. Michał Różyczka from the Nicolas Copernicus Center of Astronomical Research. Professor Paczyński was no doubt one of the most famous Polish scientists. He is a laureate of all the most important international astronomical research awards. He was a few times a candidate for the Nobel Prize in Astronomy. The paper In Memoriam of professor Bogdan Paczyński will be published in Proc. SPIE WILGA 2007.

Each WILGA Symposium organizes traditionally an artistic-humanistic session as a supplement to the dominating technical sessions. Previous sessions of this kind concerned, for example, sociology of the Internet. This year, second time in row, the subjects are Palindromes, because of exceptional activity in this area by prof. T. Morawski from WUT, usually an expert in the electromagnetic field theory. He has recently published third book on the subject and has written a collection of palindromes devoted to students and

WILGA Symposium. The session consisted of two lectures: Palindromes in Mathematics by prof. W. Płandowski from Warsaw University and History of Palindromes in Polish Fine Literature by prof. T. Morawski [<http://www.palindromy.pl/>].

European X-Ray Free Electron Laser - XFEL

On 30th January, almost twenty national research institutions signed an agreement to establish the Polish Consortium of XFEL. The aim of the Consortium is to coordinate the research work and construction efforts as well as exploitation of the E-XFEL. XFEL Poland G.m.B.H. will be established soon to be a part of the E-XFEL G.m.B.H. enterprise. These firms will be the owners of the XFEL machine.

The IEEE-SPIE WILGA Symposium is an official research meeting of the XFEL-Poland. Traditionally, since several years, one of the major topical subjects of WILGA create numerous papers on superconducting accelerator technology and on free electron lasers. A considerable number of researchers in Poland are engaged in building and tests of the FEL. A precursor to E-XFEL is FLASH, a laser currently under reconfiguration and tests. A considerable number of young researchers from Poland are participating in the construction of FLASH. These include representatives of the following institutions: Sołtan Institute for Nuclear Research in Świerk, Universities of Technology from Warsaw, Wrocław and Łódź and Warsaw University. These young authors submitted a few tens of contributed papers on this subject to WILGA 2007 Symposium. The papers from FLASH and XFEL sessions will be published in the Proc. SPIE volume from WILGA in the USA.

Several days after WILGA Symposium, an official opening of the European XFEL program took place in DESY. A number of representatives from this country participated in this important meeting like representatives of the Ministry of Research (dr J. Gierliński) and Polish XFEL Consortium (prof. K. Jabłońska, prof. G. Wrochna), in these a few participants of WILGA Symposium.

Signatories of the XFEL Consortium Poland

Institute of Physics, Polish Academy of Sciences		Niewodniczański Institute of Nuclear Physics, Polish Academy of Sciences, Kraków		Institute of Plasma Physics and Laser Microsynthesis, Warsaw	
Institute of High Pressure, Polish Academy of Sciences		Mechanical and Energetics Faculty, Wrocław University of Technology		Wrocław Technological Park	
Andrzej Sołtan Institute for Nuclear Research in Świerk		Warsaw University of Technology		Tele and Radio electronics Institute, Warsaw	
Institute of Electron Technology Materials, Warsaw		Łódź University of Technology		Military Academy of Technology, Warsaw	
Faculty of Physics, Warsaw University		Szczecin University of Technology		PREVAC sp. z o.o. Enterprise in Rogów (Fine and vacuum technologies)	
Institute of Electron Technology, Warsaw				Faculties of Electrical Engineering, Automation, Information Technology, Electronics and Physics and Applied Informatics, Academy of Mining and Metallurgy, Kraków	



DESY, 5 June 2007: Official opening of the European X-Ray Free Electron Laser. Federal Minister of Research Ms Annette Schavan is speaking; from left DESY Director prof. Albrecht Wagner, from right Director of XFEL Program prof. Massimo Altarelli and European Research Commissioner Janez Potocnik. In the foreground there is a single cell niobium resonator (basic component for the SRF TESLA technology accelerator) in which there are positioned the flags of all countries participating in building of the E-XFEL machine: Germany, Denmark, France, Greece, Hungary, Italy, China, Poland, Russia, Spain, Sweden, Switzerland and England.



DESY, 15 December 2006: A visit to FLASH control facility in DESY by prof. K. Jabłońska-Lawniczak, the Polish representative in Scientific and Technical Issues Working Group for XFEL. Beside: prof. R. Romaniuk and Ph.D. students from Warsaw University of Technology and Łódź University of Technology - W. Jałmużna, W. Cichalewski, T. Czarski. The students are testing new control algorithms for the superconductive linac and FEL. Influence of various control conditions on the electron and photon beams is investigated.



Warsaw, Institute of Physics PAS, 30.01.2007: Signatories of the Polish XFEL Consortium. Representatives of the institutions - members of XFEL Poland. Sitting in the middle are prof K.Jabłońska and dr J.Gierliński.

Poland Sections of SPIE and IEEE

WILGA 2007 is the last Symposium organized under the patronage of SPIE Poland Chapter. The Chapter has been chaired very successfully from several years by prof. Tomasz Woliński from WUT. Poland Chapter of SPIE has been acting during the period 1985-2007 as a Registered Society and had a legal personality. SPIE Headquarters, by the Board decision, liquidated regional Chapters from 01.01.2008. SPIE will cooperate directly with national associations of photonics. There were not liquidated regional SPIE Student Chapters. They are active at many universities around the world. Such a Chapter is located also at Warsaw University of Technology, and was one of the organizers of WILGA 2007 Symposium. In order to debate these changes, the Board of SPIE Poland Chapter gathered in WILGA during the Symposium. The continuation of SPIE Poland Chapter will be carried out by, just under organization by local researchers and engineers, the Photonics Society of Poland.

During the SPIE PL Board meeting, the writing these words, was honored by the 2007 Award of the President of SPIE Poland Chapter. The quotation from the award plaque is: . "For a substantial contribution to integration of young Polish researchers, and in particular for organization of the jubilee XXth WILGA Symposium on Photonics Applications: Photonics and Web Engineering; Electronics for Astronomy and High Energy Physics Experiments".

The history of WILGA Symposium is an integral part of the history of SPIE Poland Chapter. WILGA has grown up from an exceptionally creative environment of the Chapter. The Chapter was run during the most difficult years by the late professor Maksymilian Pluta. The Chapter was undertaking, during these years, wide international initiatives, which seemed then impossible to be realized. Yet, all the dreams of this group of vigorous people were fulfilled. SPIE Poland Chapter in an unprecedented way has integrated nearly the whole national research people active in photonics around such big and brave projects. During the period of 1986-2007 the Chapter has issued alone and in cooperation nearly 200 volumes of the famous photonics series Proceedings of SPIE. These volumes contain around 10000 research and technical papers, which are a sustained contribution of Polish Science and Technology into the world research resources. Without the SPIE Poland Chapter it would not have been possible. A spectacular success of the Chapter, not only research but also financial, was the organization of East and Middle European Congress on Optics and Photonics in September 2005. This Congress marked 50th Anniversary of SPIE. The President of SPIE was then prof. Małgorzata Kujawińska. The cooperation with SPIE Headquarters on this Congress was exceptionally good.



Wilga, 23 May 2007: Meeting of the Board of SPIE Poland Chapter. Prof. Tomasz Woliński hands to prof. R. Romaniukowi the 2007 Annual Award by SPIE Poland Chapter President. From left: prof. Leszek Jaroszewicz, WAT, - vice-President of the Board, mgr Aneta Michalkiewicz – Chairwoman of SPIE Student Branch at WUT, prof. Jan Wójcik, UMCS Lublin – Revision Committee of SPIE Poland Chapter.

Without a continuous and generous support from the IEEE Poland Section, the organization of such a big meeting like a multi-conference WILGA Symposium would have not been possible. The M.Sc and Ph.D. students. Organizers of WILGA Symposium, which is very important not only for them but for many young researchers in this country and in this geographical region, count on further support by IEEE Poland Section. The Symposium has to maintain its cyclic character without any interrupts. Students would like to forward their thanks for uninterrupted WILGA support to the successive Presidents of IEEE Poland Section, professors of WUT: Ryszard S. Jachowicz, Marian P. Kaźmierkowski and Andrzej Pacut.



Warsaw, WUT, 28.02.2007: Visit of dr Oliver Napoly from CEA Saclay, a delegate of ESGARD and ECFA to prepare program SRF-FP7. From the left: prof. J.Dobrowolski, prof A.Napieralski, dr O.Napoly, prof R.Romaniuk.

WILGA 2008 Symposia

XXI Symposium will be held on 18-20 January 2008 at the Faculty of Electronics and Information Technologies, WUT. The January Symposium is strictly confined topically to the design, construction and testing of photonic and electronic systems for superconductive RF accelerator technology and HEP experiments.

XXII IEEE WILGA 2008 Symposium will be held on 26 May – 1 June. The organizers, M.Sc. and Ph.D. students of WUT, as each year, warmly invite young researchers to present developments of their theses. In particular, young scientists are invited to share their experiences in now still widening participation in the European Research Framework Programs. The programs create new, young dimensions in the European Research Area (ERA). IEEE-SPIE WILGA Symposium is a unique possibility for Ph.D. students, not only to present their results in international conditions (WILGA is carried only in English, papers are doubly peer reviewed, they provide considerable number of categorization points for their authors), but also enable comparison of methods and conditions of research work in different, national and international centers.

WILGA

Due to a round number jubilee of WILGA young researchers meetings, below there are some considerations about different WILGAs. All Wilgas are continuous inspiration to our Symposium.



WILGA – (Oriolus) Golden Oriole is a medium size migrant bird, belonging to passerine family, breeds in northern hemisphere, winters in tropics. The male is striking in the typical oriole black and yellow plumage. Summer spends, among other places, in Poland. Usually resides high in the canopy. Very shy. Feeds on fruit and insects. The presence is revealed with beautiful fluting. Sings frequently just before raining starts. WILGA Symposium participants listened frequently to Oriole concerts.

WILGA – a river in the Mazowia Voivodeship, length 67km, area 570km², right inflow to Vistula. The sources in vicinity of Żelechowa (where it is connected with Mała Bystrzyca river), flows through Garwolin and joins Vistula in WILGA Village. Wilga river is wild with numerable bends. After 1980 gains again clear water. The name of WILGA river (the word wilga in Polish) has the same core as moisture. WILGA river flows closely to WILGA Village resort owned by Warsaw Univ. Technology. Now, the clear waters of WILGA river invite one for swimming.

WILGA – a rural community in Mazowia Voivodeship, in Garwolin county. WILGA community has 5500 inhabitants, area 120 km², above 40% forests and around 40% fertile fields. During WILGA Symposium the number of WILGA Community inhabitants increases by 250-350 people.

WILGA – a village (site of WILGA Community) of historical names (since 1400): Wilka, Vilka, de Wilcza, Vylka. Name originates from WILGA river. A parish founded in 1407. During 1534-1650 WILGA possessed town rights. Between the WWI and WWII the natural resort values of WILGA were discovered. Since this time the WILGA Resort Village has been developed in the adjacent woods. In 1944 fights of warecko-magnuszewski foothold. Localization of WILGA Resort Village is shown on the map quoted from Google Earth. The resort has now a few thousand homes. Among them is a resort owned by WUT. It is situated a few hundred m from Vistula embankment. The road from N to S goes from Warsaw, via Dęblin to Puławy and Kazimierz upon Vistula. A branch road to E goes to Garwolin and a road Warszawa-Lublin. The left lower corner of the map shows the great, wild Vistula river.

Conclusions and reasons of WILGA Symposium success

Speaking the truth, it is not quite understandable why WILGA gained such a big success among young researchers, on a relatively dense market of conferences. This success is really outstanding, taking into account the number of participating each year Ph.D. students and a relatively narrow topical scope of the WILGA meeting. Perhaps these reasons are: no conference fee at all; no typical conference formalities; meeting is organized by students for young researchers; the symposium is not a part of any “grown up” and thus more important event; the papers are presented only in English; papers are peer-reviewed – by the students’ tutors, during the presentation by the listeners and before publication by external reviewers; all accepted papers are published internationally, either in IEEE or SPIE press; publications give a considerable number of categorization points to the authors. The lack of any formalities and low costs enable young scientists for easy arrival, participation and direct presentation of own papers in WILGA. WILGA accepts only own work by young scientists. Review work may be only presented by tutors as an introduction to topical sessions filled with students’ work. WILGA lasts the whole week, what gives a lot of flexibility to the active participants in planning a proper term for their topical sessions. Weakly formalized character of special research, late night sessions at a grill, encourages young scientists to utter their real opinions of own worked out research methods, local work conditions and perspectives of research career in this country and abroad. A generous sponsor for these late night session is Poland Section of IEEE.



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