Chapter Activities

List of chapter activities in 2017:

Seminar list organized under the chapter patronage:

- Dr. Albert Lysko, „Passive Radar Research in the High Frequency Technologies Group of the University of Alcalá“, WEIIT, PW, Warsaw, Poland, June 2017, Attendance (IEEE member: 4, Guests: 10).
- Dr. Nicholas Fey, „Altering locomotor anticipation and complexity to inform assistive interventions for individuals with transfemoral amputation", AGH, Cracow, Poland, 27 June 2017; Attendance (IEEE member: 6, Guests: 11).
- Prof. Michel Verhaegen, „Subspace Identification“, Jachranka, Poland, 13 September 2017, Attendance (IEEE member: 7, Guests: 10).
- Prof. Anton Popov, „Signal analysis in biomedical applications" Jachranka, Poland, 13 September 2017, Attendance (IEEE member: 3, Guests: 8).
- Prof. Fabrizio Berizzi, „Imaging radar: an all weather all day e.m. camera" Jachranka, Poland, 13 September 2017, Attendance (IEEE member: 6, Guests: 15).
- Mr. Stanisław Rzewuski, Passive target detection and localization using low power WIFI transmitters as illuminators, WEIIT, PW, Warsaw, Poland, 9 October 2017, Attendance (IEEE member: 4, Guests: 10).
Conference list organized with Poland SP chapter co-sponsoring:
- 20-th Polish Conference on Biocybernetics and Biomedical Engineering, 20-22 September 2017, Krakow, Poland

Conference list organized with SP Society co-sponsoring organized by Poland SP chapter:

Exhibitions of the Poland SP chapter activity:
- NI Days 2017 Conference – 10 October 2017, Warsaw, Poland – Whole day exhibition during the conference presenting Poland SP chapter activity.

Conferences co-organized by Chapter:
**SPSymo-2017**

Every second year, since 2003, the Signal Processing Symposium (SPSymo) bringing together students, young scientists, researchers, engineers and experts from around the world. This year the 8th Signal Processing Symposium was held September 12–14, 2017 in GUS Training Center Jachranka 81, 05-140 Serock, Poland, lovely holiday place located at Zegrze Reservoir, 30 km east from Warsaw.

As a well-established conference in the field, Signal Processing Symposiums provides a lively forum for reporting the latest developments in the research and application on all matters relating to signal processing techniques, systems, and components developed for various industry sectors and different application areas, such as voice processing, image processing, biomedical applications, radar sonar and space technology, remote sensing and many others. The main goal of that symposium is to provide a forum for students, researchers and scientists to present their latest findings, new trends in science and technology, and to exchange ideas during technical and evening sessions.

In 2017 SPSymo-2017 conference turn attention particularly to the space technologies as a domain of the almost limitless possibilities. The conference program represents the efforts of many people. SPSymo-2017 received more than 100 submission from 23 countries. For publication has been select 88 papers for oral or poster presentation. The SPSymo-2017 has been organized with co-sponsoring of IEEE Signal Processing and IEEE Aerospace and Electronic Societies and support or patronage from institutional and industrial partners, among them Polish Space Agency, URSI, PCO, TESPOL, AMTechnologies, National Instruments, iTTi, CSI, MIKON Foundation, Fundacji Wspierania Rozwoju Radiokomunikacji i Technik Multimedialnych and Rada Doktorantów PW.

With the poster, oral and evening social sessions, SPSymo2017 creates the unique environment full of opportunities to keep up to date with the latest achievements in the field of signal processing and to interact with international experts from industry and academia.

**20-th PCBBE**

The 20-th Polish Conference on Biocybernetics and Biomedical Engineering was held in Krakow on September 20-22-th 2017 and hosted By AGH University of Science and Technology. The
conference gathered 141 participants from Poland and 2 foreign attendees. 104 papers were submitted to the conference and best 27, selected by reviewers from Belgium, Czech Republic, France, Germany, Hungary, Italy, Latvia, Poland, Portugal and Slovakia were published by Springer in Recent Developments and Achievements in Biocybernetics and Biomedical Engineering, series: Advances in Intelligent Systems and Computing.

The 20-th PCBBE was a great opportunity for an exchange of ideas and presentation of the latest developments in all areas within the field of biomedical engineering including: biomedical signal processing, imaging and image processing, biosensors and bioinstrumentation, bio-micro/nano technologies, biomaterials, biomechanics, robotics and minimally invasive surgery, cybernetics, bio-mimetic and modeling of biological systems, neural and rehabilitation engineering, artificial organs, molecular, cellular and tissue engineering, bioinformatics and computational biology, clinical engineering and health technology assessment, health informatics, e-health and telemedicine and biomedical engineering education. The conference also was a step forward in enhancing this oldest and still most important meeting of biomedical engineers from Poland accordingly to international standards: international program committee, English as working language, world-recognized proceedings, accompanying events, industrial sponsor contribution, presentation assessment etc.

The conference was held under the honorary patronage of His Magnificence Rector of the University of Science and Technology, prof. Tadeusz Słomka and technically supported by Signal Processing Society, Poland Chapter IEEE. A special session on certification system for clinical engineers is co-organized by Polish Committee of Biomedical Engineering, Association of Polish Electrical Engineers.

Besides above events Chapter co-sponsored organization of the very successful SPA-2017 Conference: Signal Processing – Algorithms, Architectures, Arrangements and Applications which was held on 20-22 September 2017 in Poznan, Poland. In 2017 Poland SP Chapter organized also 15 seminars under the patronage of Poland Chapter SP Society.

**Education program in 2017 held by chapter:**

During the 2017 our Chapter participate as an exhibitor on NI Days 2017 Conference which has been held in Warsaw, Poland in 10 October 2017. On this exhibition the chapter members presents to conference participant different application of using signal processing (e.g. radar signal processing, processing of an audio signals, among others).

**Annual Technical meeting of Poland SP Chapter**

Organization of the technical meeting with Poland SP Chapter Members and Guests. During this meeting the Executive Committee Board presents to the members the Chapter Activity and Chapter Goals. The meeting has been organized during SPSympo-2017 Conference on 13 September 2017 in Jachranka, Poland. The meeting gathered around 30 participants. At the meeting has been presented the Poland SP Chapter goals for the future work.