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THIRTY-SEVEN YEARS OF ARCHIVES OF ENVIRONMENTAL PROTECTION

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Keywords: Archives of Environmental Protection, environmental engineering and protection, journal's anniversary, Institute of Environmental Engineering of PAS.

Abstract: Archives of Environmental Protection is the oldest Polish scientific journal regarding environmental engineering and protection. It has been published by the Institute of Environmental Engineering of PAS in Zabrze since 1975. The Committee on Environmental Engineering of PAS became its co-publisher in 2011. The quarterly publishes original articles (earlier, also announcements) concerning broadly understood areas of the environmental engineering and protection. The subjects include: air, land and water protection; technologies of flue gases, soil and wastewater treatment; transformations and transportation of pollutants in the environment; measurement techniques used in research and engineering as well as environmental monitoring. The published articles also focus on the reclamation and management of derelict lands, environmental management and other questions related to the environmental engineering and protection.

The journal has been abstracted by Thomson Scientific since 2006 in the following databases: Science Citation Index Expanded, Biological Abstracts and BIOSIS Previews. Moreover, the journal was given the impact factor (IF) in 2010. The following article presents statistical data as well as a brief history and description of the journal.

INTRODUCTION

The Institute of Environmental Engineering of PAS in Zabrze is the oldest Polish scientific institution that conducts complex basic and applied research into the environmental engineering and protection. Its employees created the basis for the environmental engineering and contributed significantly to define this research area as the new science at the 2nd Congress of the Polish Science in 1973.

The Institute was formed in January 1961. It was first known as Zakład Badań Naukowych Górnośląskiego Okręgu Przemysłowego Polskiej Akademii Nauk (Research Centre of PAS in the Upper Silesian Industrial Region)¹. Its predecessor was Komitet Naukowy PAN ds. Górnośląskiego Okręgu Przemysłowego (Scientific Committee of PAS on the Upper Silesian Industrial Region), which had been working since 1954. It was established by Professor Eugeniusz Zaczyński, who was also its first director.

¹ Translator's note: Translations of Polish titles and names of institutions are given in brackets. This information serves solely to clarify the meaning of the titles and names to the English-speaking readers.

The Centre was reorganized in June 1970 and its name was changed to Zakład Ochrony Środowiska Regionów Przemysłowych PAN (Centre of the Environmental Protection of PAS in Industrial Regions). Finally, the Centre was transformed into the Institute of the Environmental Engineering of PAS in May 1975. It has been functioning in this form ever since. Professor Eugeniusz Zaczyński continued to be the director of the Centre after its first transformation. Later, the Centre and then the Institute were managed by prof. dr hab [full professor]² Jan Paluch (November 1964 – November 1974), prof. dr hab [full professor] Stefan Jarzębski (December 1974 – December 1983), doc. dr hab. inż. [assistant professor] Jan Kapała (January 1984 – October 2001) and prof. dr hab [full professor] Czesława Rosik-Dulewska (November 2001 – April 2012). Dr inż. [Doctor of Science, Eng.] Franciszek Pistelok has been holding the position of the director since April 2012.

The Institute coordinated complex programmes concerning environmental protection and management in the Upper Silesian Industrial Region and other Polish regions in 1970s. In the years 1986–1990, it also managed the programme of "Biochemiczne i fizyczne przemiany zanieczyszczeń i odpadów przemysłowych oraz ich interakcja ze środowiskiem" ("Biochemical and Physical Transformations of Pollutants and Industrial Waste and Their Interactions with the Environment"), which constituted a part of the Centralny Program Badań Podstawowych (Central Basic Research Programme). The Institute of Environmental Engineering is an active participant in all types of scientific research, including those financed by the EU's Framework Programmes or Ministry of Science and Higher Education and other scientific institutions as well as those not subsidized by the government budget.

Conducting scientific research on the environmental engineering and protection would be futile if its results were not popularized and used in practice. For this reason, the Institute publishes journals and a series of monographs. The first issue of *Prace i Studia (Works and Studies)*, a serial monograph publication, appeared in February 1969. The first issue of *Archives of Environmental Protection* was published in May 1975. The journal has been abstracted by Thompson Scientific since 2006 in the databases of Biological Abstracts and BIOSIS Preview. Furthermore, it has been given IF since 2010 (2009 = 0.284, 2010 = 0.188 and 2011 = 0.444). The quarterly has also been registered in the Index Copernicus since 2002. The IC index attained the values of 3.75 (2002), 3.73 (2003), 3.73 (2004), 4.46 (2005), 9.00 (2007), 9.00 (2008), 9.00 (2009) and 10.61 (2010). At present, a publication in *Archives of Environmental Protection* is given 13 points by the Ministry of Science and Higher Education.

The Institute of Environmental Engineering of PAS celebrated its 50th anniversary in 2011. Since *Archives of Environmental Protection* is its flagship, the following article presents short description and selected statistical data relating to the journal.

SUBJECTS COVERED BY ARTICLES PUBLISHED IN ARCHIVES OF ENVIRONMENTAL PROTECTION

Articles published in *Archives of Environmental Protection* regard four main areas, i.e. air, land and water protection as well as waste management.

Works on air protection concern the research into the physical and chemical content of the primary and secondary aerosols necessary for the evaluation of their impact on

² Translator' note: Polish scientific titles are given in their original form. The information given in square brackets serves solely to clarify the meaning of the title to the English-speaking readers.



health and environment. They also look into the air pollution impact on climate changes. They investigate quantity and content of pollutants emitted from energy plants and industry, specifically when it comes to dangerous substances, chemical and physical properties of substances emitted into the air, emission rates. Studies also cope with the subject of air quality management on local and regional scales.

The majority of articles on water protection discuss problems of water and wastewater treatment for industrial purposes and research into the recovery of biogenic substances from municipal and industrial wastewater. They also concentrate on the changes in the aquatic ecosystem in the process of anthropogenic water reservoirs reclamation.

Studies on land protection deliberate over methods determining the influence of point and non-point sources of pollution, including waste disposal sites, on the environment. There are also articles focusing on the formation of technogenic magnetic and geochemical anomalies in the local and national systems by means of geomagnetic parameters. Some works focus on the examinations of soil magnetic susceptibility as the factor of land pollution caused by the industrial activity. Other papers concentrate on the use of minerals and waste materials as effective and economical sorbing agents of heavy metals and organic pollutants in the remediation of water, wastewater and soil. One can also find publications on the natural and technological bases for the soil-less reclamation of post-industrial areas and waste dumps. Finally, some of the researchers present their findings relating to the use of waste energy of discharge waters from electricity production processes and geothermal water in soil heating for plant production.

Waste management issues discussed in the published articles embrace the research into chemical, physical and technological properties of waste as well methods of protecting the environment against the negative waste impact. The reports also encompass determining various methods enabling waste disposal and recovery. They also focus on the assessment of coal mining and other industrial waste in terms of its short and long-term impact on the environment including directives on its safe disposal and recovery. There are also studies on various chemical binding forms of metals in waste and other environmental samples determined with sequential chemical extraction methods.

Apart from the afore-mentioned topics, *Archives of Environmental Protection* also publishes articles on the broadly understood environmental engineering and protection. By submitting the typescript, the author states that his/her article has not been published or submitted in any other journal. At present, it is also possible to send the paper via e-mail. Afterwards, the author completes the copyright statement and sends it by post. The decision on the article publication depends on the opinions of two independent reviewers and the editorial board acceptance. Authors of the published works receive one author's copy. The articles are also published in the on-line version of the journal. It is worth mentioning that 1,693 articles were submitted to *Archives of Environmental Protection* in the years 1975–2010. 443 papers were rejected after reviewing, which makes 26.2% of the total article number.

HISTORY OF ARCHIVES OF ENVIRONMENTAL PROTECTION

The Editorial Committee (Editor-in-Chief, Members and Editorial Assistant) managed editing of the journal in the years 1975–1996. The following persons held the position of the Editor-in-Chief (issues they edited are given in brackets):

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(1/1975),
(2/1976 - 3-4/1984),
(1-2/1985-2/1992),
(3-4/1992 - 3-4/1996).

At that time, 25 people were Members of the Editorial Committee, including:

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1. Roman Andrzejewski
                                (1/1979 - 3-4/1984),
 2. Jan Bender
                                (1/1979 - 1-4/1982),
 3. Jerzy Chmielowski
                                (2/1976 - 3-4/1978),
 4. Stanisław Chróściel
                                (1-2/1983 - 3-4/1984),
 5. Bohdan Głowiak
                                (2/1976 - 1-4/1982)
 6. Stefan Godzik
                                (1/1979 - 3-4/1983),
 7. Seweryn Gołowin
                                (1/1984 - 1 - 2/1988),
 8. Andrzej Grossman
                                (2/1976 - 1-4/1982)
 9. Zdzisław Harabin
                                (1-2/1983 - 3-4/1984)
10. Stefan Jarzebski
                                (1/1975),
11. Jan Juda
                                (1/1975 - 1-4/1982),
12. Alina Kabata-Pendias
                                (1/1984 - 1 - 2/1988),
13. Jan Kapała
                                (1-2/1985 - 3-4/1996),
14. Zdzisław Małecki
                                (3-4/1988 - 3-4/1996)
15. Korneliusz Miksch
                                (3-4/1988 - 3-4/1996),
16. Jan Paluch
                                (2/1976 - 1-4/1982)
17. Zygmunt Pociecha
                                (1/1979 - 3 - 4/1984),
18. Krzysztof Rostański
                                (3-4/1992 - 3-4/1996),
19. Jan Siuta
                                (3-4/1988 - 3-4/1996),
20. Tadeusz Skawina
                                (1/1975 - 3-4/1978),
21. Karol Starmach
                                (1/1975 - 3-4/1978),
22. Zygmunt Strzyszcz
                                (1-2/1985 - 2/1992),
23. Mieczysław Sadelski
                                (1-2/1985 - 1-2/1988),
24. Irena Twardowska
                                (3-4/1992 - 3-4/1996),
Tomasz Winnicki
                                (1-2/1983 - 3-4/1984).
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The following persons held the position of the Editorial Assistant:

1. Zygmunt Strzyszcz	(1/1975 - 3 - 4/1983),
2. Stefan Godzik	(1/1984 - 3-4/1984),
3. Tomasz T. Suchecki	(1-2/1990),
4. Marek Szpor	(1-2/1985 - 3-4/1989),
5. Antoni Moskwa	(1-2/1990 - 3-4/1996).

Archiwum Ochrony Środowiska (the Polish title was then used) had been a multi-language journal when it became officially bilingual – Polish-English – in 1997 (even though summaries in Russian still appeared). It was also given the new graphic design and its title was changed to Archiwum Ochrony Środowiska – Archives of Environmental Protection. The title changed again to Archives of Environmental Protection – Archiwum Ochrony Środowiska in 2000. The journal has been a regular quarterly since 1998. The Editorial Committee was divided into the Editorial and Advisory Editorial Boards. The Editorial Board consists of the Editor-in-Chief, Section Editors and Editorial Assistant.



Editors-in-Chief:

1. Tomasz T. Suchecki (1–2/1997 – 1/2002), 2. Korneliusz Miksch (1/2002 – 2/2004), 3. Czesława Rosik-Dulewska (3/2004 to date).

Section Editors:

1. Jan Konieczyński (3/2004 to date), 2. Korneliusz Miksch (1–2/1997 – 1/2002, 3/2004), 3. Zygmunt Strzyszcz (1–2/1997 to date), 4. Tomasz T. Suchecki (1/2002 – 2/2004), 5. Jerzy Zwoździak (1–2/1997 – 2/2004),

6. Jan Suschka ()

Chairs of the Advisory Editorial Board:

1. Jan Kapała (1–2/1997 – 1/2002), 2. Czesława Rosik-Dulewska (1/2002 – 2/2004), 3. Lucjan Pawłowski (3/2004 to date).

At that time, the Editorial Advisory Board was constituted by 28 people, including members from Poland (11 persons), the USA (3 persons), India, Norway, China and Japan (2 persons from each country), France, Australia, Germany, Lithuania and the Netherlands (1 person from each country).

The journal has been published solely in English since 2005. Moreover, it has been published under exclusively English title, i.e. *Archives of Environmental Protection*, since 2008. At present, its Editor-in-Chief is Professor Czesława Rosik-Dulewska and Professors Jan Konieczyński, Zygmunt Strzyszcz and Jan Suschka are its Section Editors. Dr [DSc] Antoni Moskwa worked as the Editorial Assistant until 2010. Currently, mgr [MSc] Dorota Konieczna holds this position. Lucjan Pawłowski is the Chair of the Advisory Editorial Board, which consists of 21 persons, including 12 foreign members.

STATISTICAL DATA CONCERNING ARCHIVES OF ENVIRONMENTAL PROTECTION³ IN THE YEARS 1975–2011

Thirty-seven volumes of *Archives of Environmental Protection* were published in the years 1975–2011. They contained 107 issues consisting of 1,310 articles, whose total number of pages amounted to 17,689. Table 1 presents detailed statistical data concerning particular volumes, which includes information on the percentage of studies written by the Institute's employees as well as the percentage of works published in English and those written by foreign authors.

Statistical data is also given in Figures 1–5. They show respectively: the number of issues in particular years, number of pages and publications as well as the information on the percentage of studies prepared by the Institute's employees, works published by foreign authors and articles written in English.

³ By using the title of *Archives of Environmental Protection* and due to the serial publication character of the journal, authors pay attention to all stages of its development regardless of the title the journal had in the specific historical period.



Table 1. Statistical data concerning Archives of Environmental Protection in the years 1975–2011

Volume	Year of publication	Number of issues	Total page number	Number of articles	Publications of the Institute's employees (%)	Publications of foreign authors (%)	Publications in English (%)
1	1975	1	238	8	50	0	0
2	1976	1	272	17	18	0	6
3	1977	3	602	30	57	7	20
4	1978	3	494	27	41	0	19
5	1979	3	478	22	45	0	0
6	1980	3	560	46	26	0	4
7	1981	2	344	32	13	44	59
8	1982	1	124	8	25	0	0
9	1983	2	312	21	33	5	19
10	1984	3	574	37	49	0	5
11	1985	2	348	26	11	0	4
12	1986	1	198	14	21	0	0
13	1987	2	422	40	5	8	8
14	1988	2	342	25	8	0	16
15	1989	2	414	23	22	0	9
16	1990	2	426	35	11	3	51
17	1991	3	552	43	23	2	14
18	1992	3	606	53	38	0	11
19	1993	2	474	34	44	3	9
20	1994	2	466	34	35	3	26
21	1995	3	594	53	0	50	100
22	1996	2	360	27	33	0	15
23	1997	2	470	37	19	0	8
24	1998	4	634	45	26	2	18
25	1999	4	664	43	14	2	19
26	2000	4	604	39	18	0	26
27	2001	4	646	39	25	3	15
28	2002	4	566	46	26	2	35
29	2003	4	596	52	15	0	13

Volume	Year of publication	Number of issues	Total page number	Number of articles	Publications of the Institute's employees (%)	Publications of foreign authors (%)	Publications in English (%)
30	2004	4	616	49	12	0	16
31	2005	4	488	40	15	2	100
32	2006	4	428	33	6	0	100
33	2007	4	408	34	32	3	100
34	2008	5	760	68	6	12	100
35	2009	4	570	49	10	10	100
36	2010	4	524	41	7	15	100
37	2011	4	515	40	13	10	100

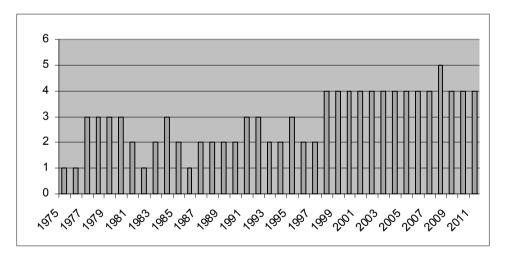


Fig. 1. Number of Archives of Environmental Protection issues published in particular years

Information given in Figure 1 indicates that the number of *Archives of Environmental Protection* issues changed. Only one issue was published in the years 1975, 1976, 1982 and 1986. Two issues appeared in the years 1981, 1983, 1987–1990, 1993, 1994, 1996 and 1997. Three issues were available in the years 1977–1980, 1985, 1991, 1992 and 1995. The journal has been published as a regular quarterly since 1998 with an exception of the year 2008, when an additional issue concerning the conference on *International Scientific Thematic Network for Environmental Technologies* was published.

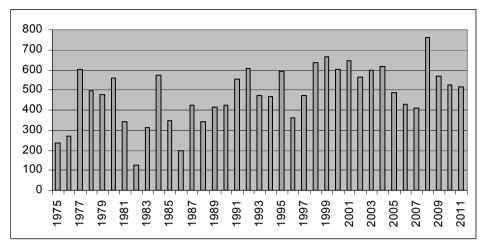


Fig. 2. Number of pages in particular volumes of *Archives of Environmental Protection* published in the years 1975–2010

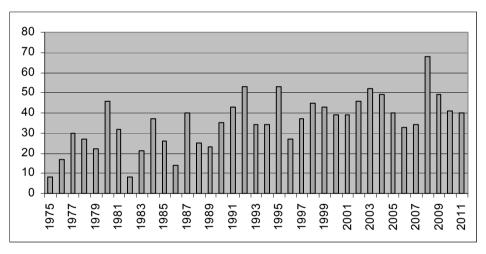


Fig. 3. Number of publications in Archives of Environmental Protection in particular years

The number of issues published in particular years determined the total number of pages and publications. The lowest number of pages was published in 1982 (124), whereas the highest one (760) appeared in 2008 due to the publication of the special issue no. 5. The median value is 475 for the years 1975–2010. Nevertheless, this value is higher (approx. 600 pages/year) for the issues circulated since 1998, i.e. the period in which the journal has been published regularly as a quarterly.

The median number of articles published in the years 1975–2010 is approx. 37/year. Nevertheless, it has been regularly exceeded in recent years (see Fig. 3). Obviously, there were volumes in which this value was much lower (1975, 1982) and much higher (1991, 1995, 2008).



It ought to be emphasized that the first publication on the history of the Institute (issue no. 1/1975) was "Nauka a przestrzenny rozwój kraju" ("Science and the spatial development of the country"). It was authored by Witold Nowacki, Kazimierz Kopecki, Tadeusz Klarner, Zdzisław Kaczmarek, Stanisław Leszczycki, Elżbieta Lissowska, Marian Madeyski, Bolesław Malisz, Czesław Mejro, Zbigniew Sufin, Aleksander Tuszko and Władysław Wyrzykowski.

It would be difficult to describe each article published in *Archives of Environmental Protection* within the last thirty-six years. However, many of the articles prove to be tremendously important, innovative, and still influential. These include:

- Stanisław Leszczycki's "Badania Komitetu GOP-u nad kształtowaniem środowiska człowieka w Górnośląskim Okręgu Przemysłowym w latach 1954–1960" ("The research into the formation of human environment in the Upper Silesian Industrial Region in the years 1954–1960 conducted by the Scientific Committee on the Upper Silesian Industrial Region") (issue no. 1/1977, pp. 9–24),
- Andrzej Grossman's "Dorobek naukowy i osiągnięcia Instytutu Podstaw Inżynierii Środowiska Polskiej Akademii Nauk w Zabrzu w latach 1961–1976" ("Scientific achievements of the Institute of Environmental Engineering of PAS in the years 1961–1976"), (issue no. 1/1977, pp. 25–42),
- Stefan Kozłowski's "Ochrona środowiska przyrodniczego w planach przestrzennego zagospodarowania kraju do roku 2000" ("Environmental protection in the plans of the national land management until the year 2000"), (issue no. 1/1981, pp. 97–114),
- Jan Kapała's "35 lat działalności Instytutu Podstaw Inżynierii Środowiska PAN w Zabrzu" ("Thirty-five years of the Institute of Environmental Engineering of PAS in Zabrze"), (issue no 1–2/1997, pp. 7–20),
- Jan Siuta's "Struktura przestrzenna wieloczynnikowej degradacji środowiska w Polsce" ("Spatial structure of multi-factor environment degradation in Poland") (issue no. 1/1998, pp. 7–16).

The authors of *Archives of Environmental Protection* also remembered about researchers who had passed away but whose lives and achievements proved to be influential to younger generations of scientists. Among them, articles paying tribute to the memory of the following professors were published:

- Stanisław Byrdy (issue no. 1–2/1993, pp. 7–8).
- Stanisław Jerzy Chrósciel (issue no. 3–4/1993, pp. 7–10).
- Roman Andrzejewski (issue no. 1/1999, pp. 78).
- Janina Szulicka (issue no. 2/1999, pp. 7–8).

Issue no. 4/1999 contained the full list of contents regarding all volumes of *Archives of Environmental Protection* in the years 1975–1994. It also comprised an index of authors published in the years 1975–1999. Full English versions of publications have been available on-line at the Institute's website since 2009. Their Polish versions have also been available since issue no. 4/2011. *Archives of Environmental Protection* has been made available in the international platform Versita in the open access mode since 2012.

Archives of Environmental Protection has never been a periodical devoted solely to the publications written by the employees of the Institute of the Environmental Protection of PAS in Zabrze. Information presented in Fig. 4 shows that the median number of the employees' articles in the years 1975–2010 was nearly 24%. At the beginning, almost

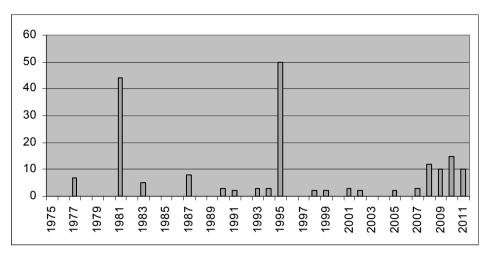


Fig. 4. Publications of the Institute's employees (%) in Archives of Environmental Protection in particular years

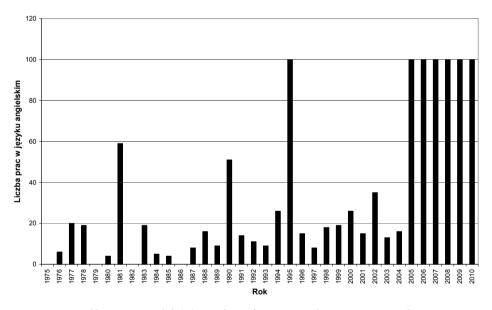


Fig. 5. Publications in English (%) in Archives of Environmental Protection in particular years

half the studies were authored by the Institute's staff. This value has been systematically decreasing as the quarterly has become more international in the editorial, authorship and readership terms.

Maciej Kostecki (63 articles) and Czesława Rosik-Dulewska (25 articles) were the most prolific *Archives of Environmental Protection* authors. 13 researchers published at least 10 studies. 51 persons publicized between 5 and 9 papers and 1,178 scientists had between 1 and 4 articles printed. The total number of authors whose works could be found in the journal in the years 1972–2010 was 1,244. They are mainly employed at Polish



R&D institutions. However, the number of the foreign authors has been systematically increasing.

Bolesław Raczyński and Jean Guichard had their "Filtration des áerosols par les lits fixes de billes de verre" published in French (issue no. 1/1977, pp. 111–142) whereas Zygmunt Strzyszcz, Rainer Tölle and Joachim Katzura wrote their "Zur Anwendung eines hochfrequenten Messverfahrens für den Nachweis von ferromagnetischen Eisen in der Umwelt" in German (issue no. 3–4/1988, pp. 137–144). On the other hand, Joachim Bronder, Tatjana G. Nefedova and Andrzej T. Jankowski published their "Badania degradacji środowiska naturalnego za pomocą serii map" ("Research into the natural environment degradation with a series of maps") in Russian (issue no. 2/1991, pp. 163–172).

Since its first issue, the aim of *Archives of Environmental Protection* has been to propagate knowledge of the environmental engineering and protection in local, national and international terms. The number of foreign authors and articles written in English (Fig. 5) corroborate the fact that the journal has become an important international periodical. It is worth mentioning that the first article published in English was Emil Dratnal's "The benthic fauna of the Prądnik stream below an inlet of dairy waste effluents" (issue no. 2/1976, pp. 235–242).

SUMMARY AND CONCLUSIONS

Archives of Environmental Protection is the oldest Polish scientific journal on the environmental engineering, which publishes original scientific articles. It has been indexed in a few bases by Thompson Scientific since 2006. It is also recorded in the ISI Master Journal List and has been given IF since 2010.

38 volumes which included 108 issues were published in the 37-year-old history of the journal. They contained 1,320 publications whose total page number was 17,810. The articles were authored by 1,361 people, both the Polish and foreigners. The fact that the journal obtained IF and has become more international is both typical for our times and necessary as the subjects related to the environmental engineering and protection have been globalized.

Within this time many aspects of the journal changed, including the discussed problems and authors. It is also worth reminding what the journal covers looked like when its titles were changed.

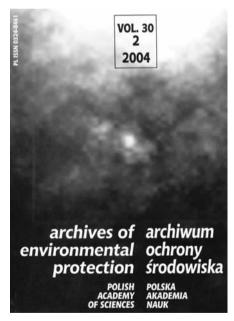
The role and importance of *Archives of Environmental Protection* is invaluable. From the historical point of view, the journal was the place in which environmental engineering was shaped as a science. It published the works of the most acknowledged experts in this discipline. As the databases usually embrace periodicals dating from ca. 1996, it is important to refer to the archival issues. They constitute an opportunity for discovering results of various research works, which are often unavailable on-line.

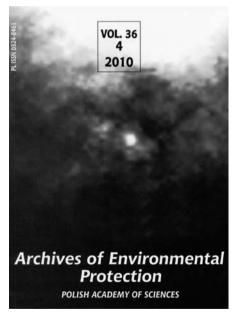
At present, Archives of Environmental Protection is one of many journals on the environmental engineering. Nonetheless, it is still one of the most important platforms for exchanging scientific ideas. The fact that the journal has been systematically developing and expanding (in terms of readers and authors) makes Archives of Environmental Protection one of the pillars of the modern science progress.

⁴ Translator's note: The original Russian title has already been translated into Polish and for this reason it is also presented in English.









37 LAT CZASOPISMA ARCHIVES OF ENVIRONMENTAL PROTECTION

Archives of Environemntal Protection to najstarsze polskie czasopismo naukowe z zakresu ochrony i inżynierii środowiska. Wydawane jest od 1975 roku przez Instytut Podstaw Inżynierii Środowiska PAN w Zabrzu. W 2011 r. współwydawcą został Komitet Inżynierii Środowiska PAN. W kwartalniku publikowane są oryginalne artykuły (wcześniej także komunikaty) z zakresu szeroko rozumianej inżynierii i ochrony środowiska,



w szczególności dotyczące ochrony powietrza atmosferycznego, ochrony wód i powierzchni ziemi; technologii oczyszczania gazów odlotowych, ścieków oraz gleb; przemian i transportu zanieczyszczeń w środowisku; technik pomiarowych stosowanych w inżynierii i badaniach oraz monitoringu środowiska. Poruszane są również tematy rekultywacji i zagospodarowania terenów zdegradowanych; kształtowania środowiska oraz innych zagadnień związanych z inżynierią i ochroną środowiska.

Od roku 2006 wydawnictwo rejestruje Thomson Scientific w bazach: Science Citation Index Expanded, Biological Abstracts i BIOSIS Previews, a od 2010 kwartalnik ma przyznany wskaźnik Impact Factor obliczany za 2009 r. W niniejszej pracy przedstawiono wybrane dane statystyczne oraz krótką historię i charakterystykę czasopisma.