Given talks¹:

- 31.05.2008 Generatory liczb pseudolosowych [Pseudo-Random Number Generators] (XXIV SMS' Session Applications of mathematics, Szczyrk)
- 10.10.2008 Prymitywy matematyczne [Mathematical primitives] (talk for high schools)
- 17.10.2008 Iloczyny liczb pierwszych a hipersześciany [Prime number products and hypercubes] (talk for members of the SMS)
- 29.11.2008 O liczbach leptonowych i kwarkowych [Lepton and quark numbers] (XXV SMS' Session Numbers, Szczyrk)
- 19.12.2008 Konstrukcje geometryczne [Geometric constructions] (talk for high schools)
- 06.03.2009 Przestrzenie metryczne, czyli... jak matematyk mierzy odległość [Metric spaces mathematician's means to count the distance] (Spotkanie z Królową Nauk, Chorzów)
- 13.03.2009 Gra w życie [Life] (The π day)
- 19.03.2009 Fraktale [Fractals] (Scientific festival, Tychy)
- $03.04.2009 Jak \ obliczy\acute{c} \sin x$? [How to evaluate $\sin x$?] (talk for high schools)
- 01.05.2009 O nieciągłych rozwiązaniach równania Cauchy'ego [Discontinuous solutions of the Cauchy equation] (XXVI SMS' Session Equations and Inequalities, Szczyrk)
- $29.05.2009 Kiedy \sin x = 2$? [When $\sin x = 2 \text{ holds}$?] (talk for high schools)
- 06.07.2009 Kilka słów o liczbach Liouvielle'a [Few words about Liouville numbers] (I mathematical summer school of Cracow University of Technology, Krynica Górska)
- 01.09.2009 Zbiory niemierzalne a równanie Cauchy'ego [Non-measurable sets and Cauchy functional equation] (Summer Maths Workshop 2009, Toruń)
- 09.10.2009 O rysowaniu wykresów funkcji [Plotting function graphs] (talk for high schools)
- 07.11.2009 Obrazki rekurencyjne i gramatyki [Recursive images and gramatics] (XXVII SMS' Session Mathematics in pictures, Szczyrk)
- 04.12.2009 Całe mnóstwo sposobów na narysowanie trójkąta Sierpińskiego [Lots and lots of ways to draw a Sierpiński triangle] (talk for high schools)
- 17.12.2009 Paradoks malarzy [Painter's Paradox] (Scientific festival, Tychy)
- 01.02.2010 Drawings of polynomial roots (6th international Students' Conference on analysis, Síkfőkút)

¹in square brackets the translation of the title is given

- 12.03.2010 Co potrafią narysować wielomiany? [What can be drawn by polynomials?] (The π day)
- 09.04.2010 O pewnym równaniu funkcyjnym [A certain functional equation] (talk for high schools)
- 29.04.2010 O pewnej technice rysowania podzbiorów \mathbb{R}^3 [A certain method of drawing the subsets of \mathbb{R}^3] (talk for members of the SMS)
- 01.05.2010 O pewnym twierdzeniu z teorii liczb [A certain theorem from the number theory] (XXVIII SMS' Session Alternative proofs, Szczyrk)
- 07.05.2010 Kilka słów o automatach skończenie stanowych [A few words about finite state machines] (talk for high schools)
- 12.05.2010 Od abstrakcji do zastosowań odległość Hamminga [From abstraction to applications Hamming distance] (VI Powiatowy Drużynowy Konkurs Matematyczny o Puchar Dyrektora II LO im. M. Kopernika w Cieszynie)
- 20.07.2010 Miara Lebesgue'a i zbiory niemierzalne [Lebesgue measure and non-measurable sets] (7th SMS' Summer Camp Measure Theory, Zakopane)
- 23.07.2010 Funkcje o wahaniu skończonym [Functions with finite fluctuation] (7th SMS' Summer Camp Measure Theory, Zakopane)
- 27.08.2010 O sitach [About sieves] (Summer Maths Workshop 2010, Toruń)
- 30.10.2010 O liczbie π [About π] (talk for Unikids Jaworzno)
- 13.11.2010 Matematyczna tresura żółwia [Mathematical turtle training] (talk for Unikids Jaworzno)
- 19.11.2010 Matematyka na niebie [Mathematics on the sky] (talk for high schools)
- 27.11.2010 Rozwinięcie π, superstringi i programowanie genetyczne [Representation of π, superstrings and genetic programming] (XXIX SMS' Session Mathematics and Computing Science, Szczyrk)
- 10.12.2010 O nieskończonościach [About infinities] (Scientific festival, Tychy)
- 18.12.2010 Gdyby świat miał ułamkowy wymiar [If world would have fractional dimension] (talk for Unikids Jaworzno)
- 25.02.2011 Wokół twierdzenia Riemanna [Around the Riemann series theorem] (talk for high schools)
- 14.03.2011 O pewnej szalonej funkcji [About some crazy function] (The π day)
- 02.05.2011 Funkcja trzynastkowa [The thirteen function] (XXX SMS' Session Pathologies and paradoxes in mathematics, Szczyrk)
- 27.05.2011 Równania różniczkowe, czyli strzałki na płaszczyźnie [Differential equations, i.e. arrows on the plane] (talk for high schools)

- 02.07.2011 Rachunek operatorów Mikusińskiego [Mikusiński's operational calculus] (8th SMS' Summer Camp Applications of differential equations, Zakopane)
- 13.09.2011 Polish Jura not only for climbing (ACAMiMM 2011, Bydgoszcz)
- 23.09.2011 Ilu ludzi żyło na świecie? [How many people lived in the world?] (Silesian Scientists' Night 2011, Katowice)
- 28.10.2011 O pewnej programistycznej sztuczce [On a certain programming trick] (talk for members of the SMS)
- 05.11.2011 Szereg harmoniczny i cegły [Harmonic series and bricks] (Aktywny w szkole aktywny w życiu, Katowice)
- 12.11.2011 Światy możliwe [Possible worlds] (XXXI SMS' Session Motivations, intuitions, constructions, Szczyrk)
- 02.12.2011 Osobliwości z przedziału [0, 1] [Peculiarities of the [0, 1] interval] (talk for high schools)
- 09.12.2011 O maszynach Turinga [About Turing machines] (Scientific festival, Tychy)
- 31.01.2012 Few words about attractors (8th international Students' Conference on analysis, Síkfőkút)
- 15.03.2012 Jak natura radzi sobie z problemami? [How nature solves problems?] (The π day)
- 10.05.2012 Attractors for semigroups in metric spaces (talk for members of the SMS)
- 11.05.2012 Implementacja świata w matematyce [Implementation of the world in mathematics] (talk for high schools)
- 02.06.2012 Nie mam pojęcia, czyli metody numeryczne dla równań różniczkowych [I do not know, i.e. the numerical methods for differential equations] (XXXII SMS' Session Algorithms, Szczyrk)
- 12.07.2012 Parada kłamców algorytm metropolis [Parade of liars Metropolis algorithm] (9th SMS' Summer Camp Applications of probability theory, Zakopane)
- 24.11.2012 Złośliwe argumenty NWD [Mischievous arguments of GCD] (XXXIII SMS' Session Number theory and cryptography, Ustroń, talk presented via the Internet)
- 03.12.2012 Podstawy programu POV-Ray [Basics of the POV-Ray] (talk for chair of the Mathematical Methods in Mathematics)
- 13.12.2012 O pewnej konsekwencji własności Darboux [On some consequence of Darboux property] (Scientific festival, Tychy)

- 08.01.2013 O pewnym uogólnieniu równania Steinhausa [About some generalization of Steinhaus functional equation] (1291 meeting of chair of functional equations, Katowice)
- 24.01.2013 O istnieniu rozwiązania dla problemu optymalnych połączeń fotonicznych [On the existence of solution of the problem of optimal photonic wire bonds] (171 meeting of Chair of the Mathematical Methods in Economy and Finances)
- 03.02.2013 Some remarks on weakly Picard operators and their application in functional equations (9th international Students' Conference on analysis, Ustroń)
- 15.03.2013 O rzeczach niemożliwych [About impossible things] (The π day)
- 25.03.2013 Pewna charakteryzacja trójkąta równobocznego [A characterization of an equilateral triangle] (talk for members of the SMS)
- 07.06.2013 Problem Dydony [Dido's problem] (talk for members of the SMS)
- 04.10.2013 Równania Maxwella i światłowody [Maxwell's equations and optical waveguides] (talk for members of the SMS)
- 27.01.2014 About applications of bifurcation theory to some problems arising from non-linear Maxwell's equations (GRK1294 seminar)
- 11.04.2014 Matematyka i łodzie (oraz okręty) podwodne [Mathematics and submarines] (talk for high schools)
- 25.08.2014 Calderón-Zygmund inequality (GRK1294 workshop, Bad Herrenalb) (talk was given also on 14.08.2014 at the seminar of the Workgroup Nonlinear Partial Differential Equations)
- 23.09.2014 Twierdzenie Crandalla-Rabinowitza i jego zastosowanie [Crandall-Rabinowitz theorem and its application] (talk for members of the SMS)
- 02.02.2015 Travelling waves for a nonlinear Maxwell's equations (GRK1294 seminar)
- 27.03.2015 O pewnym złośliwym ciągu całek [On some catty sequence of integrals] (talk for members of the SMS)
- 27.03.2015 Gra w stosy [Game of piles] (talk for high schools)
- 07.07.2015 Periodic solutions of some nonlinear wave equation (seminar of the Workgroup Nonlinear Partial Differential Equations)
- 15.01.2016 Existence of travelling waves for certain quasilinear/semilinear wave equations (CRC 1173: Workshop of Projects A5 & A6 Nonlinear Maxwell Equations, Karlsruhe)
- 08.04.2016 Existence of some travelling waves for nonlinear Maxwell equations (1st annual meeting of the CRC 1173, Rastatt)

- 21.12.2016 O pewnej funkcji nigdzie wypukłej z wypukłym ograniczeniem górnym [About a certain nowhere convex function with a convex upper bound] (talk for members of the SMS)
- 23.05.2017 On the existence of travelling waves for some semi- and quasilinear wave equations (International Conference on Elliptic and Parabolic Problems, minisymposium: *PDEs arising in nonlinear optics*, Gaeta)

Object Oriented Programming Workshop for Students' Mathematical Society of the University of Silesia:

- 18.11.2011
- 09.12.2011
- 12.01.2012
- 29.03.2012

Articles in students journal [MACIERZATOR] (ISSN 2083-9774)²:

- Kilka ciekawostek o spirali logarytmicznej [A few interesting facts about logarithmic spiral] (Macierzator22, April 2009)
- Liczby pierwsze na płaszczyźnie [Primes on the plane] (Macierzator23, May 2009)
- Kiedy sumy cyfr rozwinięć liczb π i e są takie same? [When the sum of the digits of decimal representation of the π and e are the same?] (Macierzator24, October 2009)
- Funkcja Ackermanna [Ackermann function] (Macierzator 25, November 2009)
- O kilku strasznych dowodach [About few scary proofs] (Macierzator26, December 2009)
- O samopodobieństwie trochę inaczej [About self-similarity in different way] (Macierzator 27, January 2010)
- O pewnej maszynie [About some machine] (Macierzator 28, February 2010)
- Gonitwa na płaszczyźnie [Chase on the plane] (Macierzator33, November 2010)
- O tym, że matematyka potrafi być czasami bardzo złośliwa [Mathematics can be sometimes very nasty] (Macierzator34, December 2010)
- O pewnej granicy, rozwinięciu binarnym i logarytmie naturalnym [About some limit, binary expansion and natural logarithm] (Macierzator35, February 2011)
- Twierdzenie Midy'ego [Midy's theorem] (π-Macierzator36, March 2011)
- Twierdzenia Tarskiego o punkcie stałym [Tarski's fixed point theorem] (co-authors: Marek Biedrzycki, Szymon Draga, Mateusz Jurczyński, Jolanta Marzec, Weronika Siwek, Mikołaj Stańczyk, Aleksandra Urban, Peter Volkmann) (Macierzator38, May-June 2011)

²in square brackets the translation of the title is given

- Zasada szufladkowa kilka prostych wniosków [Pigeonhole principle few interesting corollaries] (Macierzator39, September 2011)
- Spowalnianie rozbieżności szeregów [Decreasing the rate of divergence of series] (Macierzator41, November 2011)
- O pewnym ciekawym szeregu [On some interesting series] (π-Macierzator45, March 2012)
- O gęstości obrazu liczb naturalnych poprzez funkcję sinus [On the density of the image of naturals by sine] (Macierzator46, April 2012)
- Przykład Dieudonné'a równania różniczkowego bez rozwiązania [Dieudonné's example of differential equation without solution] (co-authors: Wojciech Bielas, Szymon Draga, Konrad Jałowiecki, Magdalena Nowak, Agnieszka Piszczek, Magdalena Sitko, Peter Volkmann, Adam Wrzesiński, Radosław Zawiski, Joanna Zwierzyńska) (Macierzator47, May 2012)
- Matematyczne polowanie na zająca [Mathematical hunt for a hare] (π-Macierzator 56, March 2014)

Posters:

• 21.03.2017 — Travelling waves for some semilinear and quasilinear equations (2nd annual meeting of the CRC 1173, Rastatt)

Conferences and scientific festivals:

- 13.03.2008–14.03.2008, Katowice The π day
- 30.05.2008–01.06.2008, Szczyrk XXIV SMS' Session Applications of mathematics
- 28.11.2008–30.11.2008, Szczyrk XXV SMS' Session Numbers
- \bullet 07.02.2009–10.02.2009, Szare The 5th International Students' Conference on Analysis
- 06.03.2009, Chorzów Spotkanie z królowa nauk
- 12.03.2009–14.03.2009, Katowice The π day
- 19.03.2009, Tychy Scientific festival
- 01.04.2009, Ostrava 19th Annual Vojtěch Jarník International Mathematical Competition
- 22.04.2009, Katowice Scientific festival
- 30.04.2009–03.05.2009, Szczyrk XXVI SMS' Session Equations and Inequalities
- 04.07.2009–08.07.2009, Krynica I mathematical summer school of Cracow University of Technology
- 31.08.2009-04.09.2009, Toruń Summer Maths Workshop 2009

- 20.09.2009–26.09.2009, Kraków XII International Workshop for Young Mathematicians "Probability Theory and Statistics"
- \bullet 06.11.2009–08.11.2009, Szczyrk XXVII SMS' Session Mathematics in pictures
- 17.12.2009, Tychy Scientific festival
- 31.01.2010–03.02.2010, Síkfőkút 6 th international Students' Conference on analysis
- 11.03.2010–13.03.2010, Katowice The π day
- 25.03.2010, Ostrava 20th Annual Vojtěch Jarník International Mathematical Competition
- 28.04.2010–29.04.2010, Katowice Scientific festival
- 30.04.2010–03.05.2010, Szczyrk, XXVIII SMS' Session Alternative proofs
- 12.05.2010, Cieszyn VI Powiatowy Drużynowy Konkurs Matematyczny o Puchar Dyrektora II LO im. M. Kopernika w Cieszynie
- 19.07.2010–25.07.2010, Zakopane 7^{th} SMS' Summer Camp Measure Theory
- 23.08.2010–27.08.2010, Toruń Summer Maths Workshop 2010
- 19.09.2010–24.09.2010, Kraków XIII International Workshop for Young Mathematicians "Logic and Foundations of Mathematics"
- 24.09.2010, Katowice Silesian Scientists' Night
- 26.11.2010–28.22.2010, Szczyrk XXIX SMS' Session Mathematics and Computing Science
- 10.12.2010, Tychy Festiwal Nauki
- 05.02.2011–08.02.2011, Wisła 7th international Students' Conference on analysis
- 14.03.2011–15.03.2011, Katowice The π day
- 11.04.2011–14.04.2011, Katowice Scientific festival
- 29.04.2011–03.05.2011, Szczyrk XXX SMS' Session Pathologies and paradoxes in mathematics
- \bullet 01.07.2011–07.07.2011, Zakopane 8th SMS' Summer Camp Applications of differential equations
- 04.09.2011–18.09.2011, Bydgoszcz European Intensive Program (ACAMiMM)
- 23.09.2011, Katowice Silesian Scientists' Night
- 10.11.2011–13.11.2011, Szczyrk XXXI SMS' Session Motivations, intuitions, constructions

- 18.01.2012, Katowice I SMS and KNAL symposium Space
- 28.01.2012–31.01.2012, Síkfőkút $8^{\rm th}$ international Students' Conference on analysis
- 14.03.2012–15.03.2012, Katowice The π day
- 26.05.2012, Chorzów Śląski Integracyjny Piknik Naukowy
- 01.06.2012–03.06.2012, Szczyrk XXXII SMS' Session Algorithms
- 02.07.2012-07.07.2012, Kraków $6^{\rm th}$ European Congress of Mathematics
- \bullet 09.07.2012–15.07.2012, Zakopane 9th SMS' Summer Camp Applications of probability theory
- 24.09.2012–27.09.2012, Krynica Summer school of Institute of Mathematics of the University of Silesia 2012
- 23.11.2012–25.11.2012, Ustroń XXXIII SMS' Session Number theory and cryptography
- 13.12.2012, Tychy Scientific festival
- \bullet 02.02.2013–05.02.2013, Ustroń 9th international Students' Conference on analysis
- 14.03.2013–15.03.2013, Katowice The π day
- \bullet 04.07.2013–05.07.2013, Gießen Nonlinear PDE days "Workshop on Geometric PDEs"
- 17.09.2013–20.09.2013, Rome P(n) School on "Recent Trends in Nonlinear PDEs"
- 02.06.2014–07.09.2014, Cetraro 60th Centro Internazionale Matematico Estivo International Mathematical Summer Center Partial Differential Equations and Geometric Measure Theory
- 12.06.2014–13.06.2014, Cologne PDE Days
- 25.08.2014–27.08.2014, Bad Herrenalb GRK1294 workshop
- 17.09.2014–20.09.2014, Poznań Joint Meeting of the German Mathematical Society (DMV) and the Polish Mathematical Society (PTM)
- 15.02.2015–20.02.2015, Mbour Spring School on Variational and Geometric Methods in Nonlinear PDEs
- 14.07.2015–15.07.2015, Karlsruhe Nonlinear PDE Days In Honour of Michael Plum on the Occasion of his 60th Birthday
- 20.07.2015–24.07.2015, Karlsruhe The 12th International Conference on Mathematical and Numerical Aspects of Waves (Waves 2015)

- 15.10.2015–16.10.2015, Karlsruhe Final GRK 1294 Workshop
- 15.01.2016, Karlsruhe CRC 1173: Workshop of Projects A5 & A6 Nonlinear Maxwell Equations
- 15.02.2016–19.02.2016, Mbour Spring School on Nonlinear PDEs and Related Problems
- \bullet 04.04.2016–08.04.2016, Rastatt 1st annual meeting of the CRC 1173
- 12.09.2016–15.09.2016, Karlsruhe Summer school on Wave phenomena: analysis and numerics (project Analysis 2 with: Leonid Chaichenets, Christoph Kehle, Junaid Mustafa, Nikolaos Pattakos, Rahmi Rusin, Michael Ullmann)
- 16.09.2016, Karlsruhe CRC1173 opening event
- 13.10.2016–14.10.2016, Gießen Nonlinear PDE days "Junior Nonlinear PDE Days"
- 20.03.2017-24.03.2017, Rastatt 2nd annual meeting of the CRC 1173
- 22.05.2017–26.05.2017, Gaeta International Conference on Elliptic and Parabolic Problems
- 13.06.2017–14.06.2017, Karlsruhe PDEs unplugged@Karlsruhe
- 07.10.2019–11.10.2019, Lübeck, Europe Biobank Week 2019

Teaching:

- Classical Methods for Partial Differential Equations exercises to the lecture of Prof. Dr. Michael Plum (WS2015/2016)
- Aspects of Nonlinear Wave Equations exercises to the lecture of Prof. Dr. Wolfgang Reichel (SS2016)
- seminar Nonlinear wave- and Schrödinger equations (with Prof. Dr. Wolfgang Reichel) (WS2016/2017)