Janusz Rębielak

CURRICULUM VITAE

(updated on January 20th , 2015)

Basic data:

I was born on 10th October 1955 in Bierutów near Wroclaw in Poland.

Education and academic affiliation:

- after completing of the High School of Juliusz Słowacki in Oleśnica, I studied at the Department of Architecture at the Technical University of Wroclaw, in Poland, I graduated from this Department in March 1979,
- I obtained the PhD degree in May 1982 after completing the Doctoral Studies in the Institute of Architecture and Town Planning at the Technical University of Wroclaw as a result of the defence of my doctor's thesis entitled "Shaping of shell forms by means of modular elements" (supervisor Professor T. Kolendowicz),
- I obtained the D.Sc. degree in February 1993 at the Department of Architecture at the Wroclaw University of Technology on the basis of the published monograph entitled "Space structures of large spans",
- during the period between 01 July 2000 and 30 June 2007 I was employed as a professor at the Wroclaw University of Technology,
- the title of professor has been conferred on me by the decree of the President of the Republic of Poland issued in 8th June 2006,
- since 1st March 2008 I am employed as the professor at the Faculty of Architecture of the Tadeusz Kościuszko Cracow University of Technology, in Poland.

Range and results of scientific and professional activity:

- the main domain of my research interests are numerical methods of shaping and design of the space structures and their applications as the bearing systems of the large span roofs, tall buildings and foundation structures, the innovative combined foundation system, patented recently by myself, makes possible the safe foundation of the heavily loaded building on subsoil of small load carrying ability located particularly in earthquake areas or in the mining damage sectors, the buildings designed by means of the application of these structural systems may obtain interesting and individual architectonic views, I am also involved in working out concepts of technical solutions for retractable and foldable roof structures, which can make possible to close and then to open fast and smoothly the covered area,
- to the most important my achievements I count the followings: the innovative system of combined foundation considered as the groundbreaking technical invention in the safe foundation of buildings; several types of structural systems of the lightweight roof covers like the crystal tension-strut structure or a group of the type of VA(TH) structures; the method of secondary grid deformation, which enables to design the most regular triangular grids for geodesic domes; the two-staged method of calculation of statically indeterminate trusses, which makes easier the initial process of their design,
- so far I have published 181 scientific papers, including 3 monographs and 3 patents; total number of all publications is equal to 193,

- I have given lectures during national and international scientific conferences held in Poland, Great Britain (1993, 1997, 2002, 2011, 2014), USA (1995, 2006, 2011), China (1996, 2006, 2010), Denmark (1998), Israel (1998, 2011), Spain (2000, 2003, 2014), the Netherlands (2000), Australia (2001), Japan (2001, 2014), Belgium (2002), Taiwan (2003, 2011), Argentina (2004, 2010), France (2004) Hungary (2004), Austria (2005), Germany (2006), Iran (2007, 2009, 2011), Ukraine (2008), Egypt (2012), South Korea (2012), Greece (2013), Singapore (2013) and in Italy (2014).

Activities in professional and scientific societies:

- I am a chairman of the Commission of Architecture and Town Planning of the Polish Academy of Sciences (PAN), Wroclaw Branch, since 1st October 2006, in Spring 2011 I have been re-elected as the Chairman of the Commission for the tenure 2011-2014,
- I am member of the Chapter for the Award of the Wroclaw Branch of Polish Academy of Sciences „Iuvenes Wratislaviae",
- I was a member of Section of Architecture of the Committee for Architecture and Town Planning of the Polish Academy of Science (PAN), term 2003-2006,
- a member of Committee for European Cultures of the Wroclaw Branch of Polish Academy of Sciences,
- I was a V-ce Chairman of the Inter-University Association for Teaching of Building Technology in Architectural Education in Poland,
- I co-operate with the Space Structures Research Centre established by Prof. Zygmunt Stanisław Makowski in the middle of 60s at the University of Surrey in Great Britain,
- a member of Scientific Committee of the International School of Computer Aided Design, Manufacture and Operating organized annually by the Military University of Technology in Warsaw,
- a member of the Advisory Board of the International Society for Interdisciplinary Study of Symmetry (ISIS-SYMMETRY),
- a member of the International Association of Mathematics and Design,
- a member of editorial committee of Jornadas Internacionales de Mathematics & Design, issued in Buenos Aires, Argentina,
- a member of the editorial committee for the Journal of Mathematics and System Science, issued in USA,
- a member of the Research Board of Advisors of the American Biographical Institute (ABI), Raleigh, North Carolina, USA,
- I was a member of group of referees of International Journal of Solids and Structures, Stanford University, California, USA,
- I organized the invited scientific session "Design Methods of Spatial Structures in Architecture and Civil Engineering" during The 10th World Multi-Conference on Systemics, Cybernetics and Informatics in July 2006, in Orlando, Florida, USA,
- I organized the Minisymposium "Methods of approximate static analyses of complex structural systems" during the 11th. World Congress on Computational Mechanics (WCCM2014), 5th. European Conference on Computational Mechanics (ECCM V) and 6th. European Conference on Computational Fluid Dynamics (ECFD VI), July 20 - 25, 2014, Barcelona, Spain,
- I am organizer of the international scientific workshops "Innovative Structural Systems in Architecture" planned to be held in Autumn 2014 as an item of the activity schedule of

the Committee of Architecture and Town Planning of the Polish Academy of Sciences (PAN), Wroclaw Branch, which I lead,
- I am Co-Chairman of the Scientific Committee and also Co-Chairman of the Organizing and the Program Committee of the 10th International Conference on Multipurpose High-Rise Towers and Tall Buildings organized by Faculty of Architecture of Cracow University of Technology in June 22-25, 2015 for the International Federation of High-Rise Structures in Cracow, in Poland,
- a member of the Research Council of International Biographical Centre, Cambridge, England,
- I was a member of the Working Group No 15 (Structural Morphology) of the International Association for Shell and Spatial Structures (IASS) and a member of the Polish Chapter of the IASS (1994-2010),
- I was a member of the editorial committee of the Journal of International Association for Shell and Spatial Structures, issued by CEDEX- Laboratorio Central de Estructuras y Materiales in Madrid, Spain, (2002-2010),
- a member of the Center of Excellence for Architectural Technology at the University of Tehran, in Iran, since 2007,
- a member of editorial board of newly established „International Journal of Architectural Technology" (IJAT) aimed to issue in the near future by the Center of Excellence for Architectural Technology at the University of Tehran, in Iran,
- I was a member of the panel of referee for the departmental journal "Journal of Civil Engineering Research and Practice", Department of Civil Engineering, University of Malaya, Kuala Lumpur, Malaysia,
- I was a chairman of Organizing Committee of the International Conference "Symmetry of Forms and Structures", proceedings of which were held in September 14-19, 2009 in Wrocław and Kraków, in Poland, the main organizers of the conference were Wroclaw Branch of the Polish Academy of Sciences (PAN) and the International Society for the Interdisciplinary Study of Symmetry (ISIS-SYMMETRY), I was editor of the special issue of The Journal International Society for the Interdisciplinary Study of Symmetry (ISIS-SYMMETRY) Nos 1-4/2009, where papers accepted for this conference are published,
- a member of Scientific Board of a new international journal *Architectural Volumes* issued in Poland since 2010,
- a member of scientific board of journal *Nowoczesne Hale* issued in Poland,
- a member of group of referees of scientific Journal *Architectus* issued by Faculty of Architecture of the Wrocław University of Technology,
- I fulfil duties as a research supervisor of scientific and professional heritage of Professor Stefan Du Chateau in the Krystyna and Stefan Du Chateau Foundation of the French-Polish Friendship, located in Hrubieszów (Poland),
- a member of Lower Silesian Chamber of Architects of Republic of Poland,
- I was a member of Team of External Experts of the National Program Poland 2020,
- a member of the Association of Polish Architects (SARP), since 1983 till 2007,
- a was a member of the Polish Society for Descriptive Geometry and Engineering Graphics,
- I was a member of the Polish Chapter of the European Union of Small and Medium Business and Free-Lance,
- a member of the Trade Union "Solidarity" since September 1980 until February 2007.

Academic activities:

- since 1st September 1982 I was employed in the Division of Building Structures at the Department of Architecture of the Technical University of Wroclaw leading classes of the all basic courses offered by the Division, I mainly gave lectures on *Theory of structures* for first year students, lectures on *Modern structural systems* for third year students and *Determinations of structural forms in architecture* for the listeners (Ph.D. students) of the Doctoral Study,
- since the 1st January 1993 I was the acting manager of the Division and since the day of the 1st August 1994 until 31st January 2001 I was the head of the Division of Building Structures at the Department of Architecture of the Wroclaw University of Technology; after the cancellation of the Division of Building Engineering its staff was incorporated into the staff of the Division of Building Structures, which took the new name,
- since the 1st February 2001 till 30th June 2007 I was the head of the Division of Structures and Building Engineering at the Department of Architecture of the Wroclaw University of Technology,
- since 1981 until 1997 I gave lectures on *Engineering design* at the Department of the Interior Architecture and Industrial Design of the present Academy of Fine Arts in Wroclaw,
- in academic year 1984/85 I worked as a research fellow at the Department of Architecture of Delft University of Technology, the Netherlands,
- between 1st April 2001 and 1st February 2002 I was a visiting research fellow in Kawaguchi Lab (Shell and Spatial Structures Laboratory) in the Institute of Industrial Science at the University of Tokyo, in Japan due to the fellowship awarded by the JSPS (Japan Society for the Promotion of Science), the Foundation of the Japanese Government,
- in October 1997 I started the official co-operation between the Division of Building Structures and the Space Structures Research Centre at the Department of Civil Engineering at the University of Surrey in United Kingdom,
- I am and I was in the past a member of scientific committees of several international scientific conferences,
- I led the scientific seminar of the Division of Structures and Building Engineering,
- I was the tutor of the Structural Scientific Circle operating at the Division of Structures and Building Engineering starting from its origin in Spring 1999 until 30th June 2007,
- I have prepared fourteen reviews of doctor's theses, three in the case of doctor of sciences and three for recommendation in the professorship procedures,
- I led six completed grants awarded by KBN (State Committee for Research of the Republic of Poland), including three supervisor's grants; recently I led the scientific project "Numerical methods in design of modern forms of architectonic space structures" granted for the period of 32 months (2010-2012) by the Ministry of Science and Higher Education in Warsaw and the National Centre of Science in Cracow,
- I am a supervisor of six completed doctor's theses and the supervisor in three currently prepared doctor's theses; one of the doctor's thesis has obtained in 2004 the Award of the Rector of Wroclaw University of Technology, two were distinguished by the Ministry of Transport and Building Industry (2005), one was awarded by Ministry of Infrastructure

(2008) and two next are appointed to award; until now I was the supervisor of 38 diplomas, others of them were awarded or distinguished,
- since 1st September 2004 untill31st January 2007 I was also employed as a professor in The University of Economy in Bydgoszcz, where I was a head of the Laboratory of Building Structures and Advanced Technology, where I have given the lectures of *Theory of structures* and *History of engineering in architecture*,
- on Wednesday, the 31st January 2007, I resigned the position at the Wrocław University of Technology in the protest against the decisions of the authorities of the Department of Architecture undertaken regarding the Division, which I led,
- since 1st March 2008 I am employed as the professor at The Tadeusz Kosciuszko Cracow University of Technology, at the Faculty of Architecture, in Institute of Engineering Design, in Division of Building Techniques, where I am giving mainly lectures of *theory of structures* and *building structures* led in English language as individual research with students of the Erasmus Program,
- in 2011 I have initiated a procedure to establish the Laboratory of Numerical Modelling of Space Structures in the Integrated Environment of BIM, which in December 2013 has started its operation mode in the Division of Building Techniques at Faculty of Architecture at The Tadeusz Kosciuszko Cracow University of Technology,
- in association with this Laboratory in December 2013 the BIM Student Scientific Circle of Numerical Design of Architectonic Structures has started its activity, which is established mainly by students of Faculty of Architecture and by several students of Faculty of Civil Engineering of the Cracow University of Technology, the scientific tutor of which I have been appointed.

Professional activities:

- I have the qualifications for the architectural design without any limits (in Poland),
- in the periods between 1998-2002 and 2005-2013 I managed my own design studio for preparing projects of various types of architectural objects and also prepared technical documentations for various types of architectonic objects and making projects for architectonic competitions, three of them were awarded.

Other interest: history, aviation, music, fine arts.

Honours and Awards:

I obtained the awards of the Rector of the Wroclaw University of Technology (1982, 2004), awards of the Dean of Department of Architecture of the Wroclaw University of Technology (1990, 1993, 1998, 2000, 2004), the award-diploma of the Rector of the Warsaw University of Technology (1999). I have obtained the Golden Mark of Distinction of the Wroclaw University of Technology (1996), The Distinguished Leadership Award (2001) and The American Medal of Honor (2004) awarded by American Biographical Institute (ABI), the Silver Order of Merit (1998), the Golden Order of Merit (2004), and The Knight's Cross of the Order of Polonia Restituta (2014) conferred on me by the decrees of the President of the Republic of Poland.

Family Status:

I am married since 1980, wife Małgorzata (maiden name Bielicka, b. 1958), I have three children: son Maciej - born in December 1982, daughter Jagienka - born in December 1984, and son Jan - born in February 1999.

Other information:

- father Stanisław Rębielak (1930 – 1970), in the early 50s was a political prisoner of the camp Jaworzno; mother Wanda (maiden name Pietrzak, 1934 – 2014); grandfather Władysław Rębielak (1899 – 1970), a Knight of the Virtuti Militari Order, grade V, No 3828, lancer of the 9th Cavalry Regiment of Polish Army, the order has been conferred on him for the successful charge, which he initiated, in spite of heavy injury, during a battle under Żółtańce close to Lvov, in August 19th, 1920; uncle Józef Pietrzak (1915 – 1945), also a Knight of the Virtuti Militari Order, grade V, defender of Westerplatte in September 1939 as a corporal of Polish Army, he died tragically in the last days of the second world war on the North Sea together with thousands of the Allied war prisoners.

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Janusz Rębielak

LIST OF PUBLICATIONS (updated on January 20th , 2015)

1. Rębielak Janusz: *Designing of structural systems with application of principle of superposition***,** Czasopismo Techniczne (Technical Transactions), No 8A/2014, pp. 71-76.

2. Rębielak Janusz: *Structural systems generated for various architectonic purposes*, Proceedings of XVII Generative Art Conference, eds. C. Soddu and E. Colabella, 16-19 December, 2014, Rome, Italy, p. 23, full paper on the attached CD.

3. Rębielak Janusz: *Structural systems composed of concentric hoops and designed for lightweight domes of large spans*, Journal of Civil Engineering and Architecture, September 2014, Volume 8, No. 9, pp. 1121-1128.

4. Rębielak Janusz: *New method of approximate calculations of statically indeterminate trusses*, 11th World Congress on Computational Mechanics (WCCM2014), 5th European Conference on Computational Mechanics (ECCM V) and 6th European Conference on Computational Fluid Dynamics (ECFD VI), July 20 – 25, 2014, Barcelona, Spain, extended abstract of paper is published on website http://www.wccm-eccm-ecfd2014.org/frontal/Ebook.asp

5. Rębielak Janusz: *A two-stage method for an approximate calculation of statically indeterminate trusses***,** Journal of Civil Engineering and Architecture, Volume 8, Number 5, May 2014 (Serial Number 78), pp. 567-572.

6. Rębielak Janusz: *Propozycje form i zastosowań system fundamentu zespolonego (Proposals of forms and applications of system of the combined foundation – in Polish*), XVIII Międzynarodowa Szkoła Komputerowego Wspomagania Projektowania, Wytwarzania i Eksploatacji, Wojskowa Akademia Techniczna, Warszawa-Szczyrk, May 12-16 2014 r., Vol. 2, pp. 261-266 (paper is published on attached CD to the Journal „Mechanik" No 7, 2014, p. 555, CD, paper No 74, pp. 631-636).

7. Rębielak Janusz: *New simple method of calculation of statically indeterminate trusses*, Journal of Mathematics and System Science, 4 (2014), pp. 367-371.

8. Rębielak Janusz: *Approximate static analyses of selected types of structural systems*, Proceedings of 1st International Conference on Computational Engineering and Science for Safety and Environmental Problems, COMPSAFE 2014, April 13-16, 2014, Sendai, Japan, CD, pp. 448-451.

9. Rębielak Janusz: *Refleksje na temat architektury charakterystycznych obiektów miasta Yazd w Iranie (Reflections about architecture of characteristic objects of the city Yazd in Iran – in Polish)*, Harmonizowanie przestrzeni, Perspektywy Studia Interwencje, ed. R. Barełkowski, Wydawnictwo Exemplum, ISBN 978-83-62690-08-4, Poznań, 2013, pp. 35 – 49.

10. Rębielak Janusz: *Simple method of calculation of statically indeterminate trusses*, Proceedings of 5th Asia Pacific Congress on Computational Mechanics & 4th International Symposium on Computational Mechanics (APCOM2013 & ISCM2013), Paper ID - 1594, 11-14 December, 2013, Singapore.

11. Rębielak Janusz: *Static analysis and architectonic design of some symmetrical structures*, Proceedings of ISIS-Symmetry Congress-Festival "Labyrinth and Symmetry", Crete, 9-15 September, 2013, The Journal of the International Society for the Interdisciplinary Study of Symmetry: Art and Science, Eds.: V. Makarova, D. Nagy and J.M. Vandoulakis, Nos 1-4, 2013, pp. 284-287.

12. Rębielak Janusz: *Zespolony system konstrukcyjny budynków wysokich (Combined structural system of high-rise buildings – in Polish)*, Poznanie, Kosmos, cywilizacja, red.: E. Dobierzewska-Mozrzymas i A. Jezierski, Studium Generale Universitatis Wratislaviensis im. Profesora Jana Mozrzymasa, Vol. XVII, ISSN 0239-6661, Wydawnictwo Uniwersytetu Wrocławskiego, 2013, pp. 207-219.

13. Rębielak Janusz: *Metoda obliczania kratownic statycznie niewyznaczalnych w dwóch etapach (Method of calculation of statically indeterminate trusses in two stages – in Polish)*, XVII Międzynarodowa Szkoła Komputerowego Wspomagania Projektowania, Wytwarzania i Eksploatacji, Wojskowa Akademia Techniczna, Warszawa-Szczyrk, May 13-17, 2013, Vol 2, pp. 281-287 (paper is published on attached CD to the Journal „Mechanik" No 7, 2013, p. 599, CD pp. 729-736).

14. Rębielak Janusz: *Metody numeryczne w modelowaniu struktur przestrzennych. Kształtowanie systemów konstrukcyjnych budynków wysokich (Numerical methods in modeling of space structures. Shaping of structural systems of tall buildings – in Polish)*, Archivolta, nr 1, 2013, pp. 50-57.

15. Rębielak Janusz: *System of combined foundation for tall buildings*, Journal of Civil Engineering and Architecture, Vol. 6, No 12, December 2012, (Serial No 61), pp. 1627-1634.

16. Rębielak Janusz: *A method of static calculation and shape of structural system developed by application of principles of superposition*, Lightweight structures in civil engineering – contemporary problems, Local seminar of IASS Polish Chapter, Warsaw, 7 December, 2012, pp. 155-158.

17. Rębielak Janusz: *Review of some structural systems developed recently by help of application of numerical models*, Lightweight structures in civil engineering – contemporary problems, Local seminar of IASS Polish Chapter, Warsaw, 7 December, 2012, pp. 159-164.

18. Rębielak Janusz: *Metody numeryczne w modelowaniu struktur przestrzennych. Formy przekryć dachowych (Numerical methods in modeling of space structures. Forms of roof covers – in Polish)*, Archivolta, nr 4, 2012, pp. 64-71.

19. Rębielak Janusz: *Complex of tall buildings designed by means of the combined structural system*, Proceedings of the 4th International Conference on Contemporary Problems in Architecture and Construction, Sustainable Building Industry of the Future, Częstochowa, Poland, September 24-27, 2012, Vol. 2, pp. 701-706.

20. Rębielak Janusz: *Architektura w dawnej Persji i we współczesnym Iranie* (*Architecture in ancient Persia and in contemporary Iran – in Polish*), Przyroda, ekologia, kultura, red.: E. Dobierzewska-Mozrzymas i A. Jezierski, Studium Generale Universitatis Wratislaviensis im. Profesora Jana Mozrzymasa, Volume XVI, ISSN 0239-6661, Wydawnictwo Uniwersytetu Wrocławskiego, 2012, pp. 219-248.

21. Rębielak Janusz: *Examples of forms of tall buildings designed by means of the combined structural system*, Seoul, 2012, From Spatial Structures to Space Structures, IASS-APCS 2012 Symposium, May 21-24, 2012, Seoul, Korea, Book of Abstracts, p. 366, (full paper is published on attached CD).

22. Mikołajewski Jarosław, Rębielak Janusz: *Wzmocnienie konstrukcji stalowej hali poprzez ukierunkowane sprężenia dachu*, (*Steel hall structure strengthening by the directional pre-stressing – in Polish*), XVI Międzynarodowa Szkoła Komputerowego Wspomagania Projektowania, Wytwarzania i Eksploatacji, Wojskowa Akademia Techniczna, Warszawa-Jurata, 14-18 maja 2012 r., Vol. 1, pp. 507-516. (full paper is published on attached CD to the Journal „Mechanik" p. 601/CD ps. 519, 2012).

23. Rębielak Janusz: *Model numeryczny GeoDome Sky Towers*, (*Numerical model of GeoDome Sky Towers – in Polish),* XVI Międzynarodowa Szkoła Komputerowego Wspomagania Projektowania, Wytwarzania i Eksploatacji, Wojskowa Akademia Techniczna, Warszawa-Jurata, 14-18 maja 2012 r., Vol. 2, pp. 303-308, (full paper is published in Journal „Mechanik", No 7, 2012, p. 604/CD p. 835, 2012).

24. Rębielak Janusz: *New forms of combined structural system proposed for tall buildings*, IABSE Conference, Global thinking in structural engineering: recent achievements, Sharm El Sheikh, May 7-9, 2012, Report volume 98, pp. 150-151, (full paper is published on attached CD).

25. Rębielak Janusz: *Koncepcja systemu konstrukcyjnego budynku wysokiego*, (*Combined structural system of tall building - in Polish*), Inżynieria i Budownictwo, No 1, 2012, pp. 45-51.

26. Rębielak Janusz: *Combined structural system proposed for buildings located in earthquake areas*, Proceedings of Third Symposium on Computation Mechanics (ISCM III) and Second Symposium on Computational Structural Engineering (CSE II), Eds. Y.B. Yang, L.J. Leu, C.S.D. Chen, December 5-7, 2011, Taipei, Taiwan, National Taiwan University Press, pp. 324-325.

27. Rębielak Janusz, Mikołajewski Jarosław: *Analiza statyczna sferycznej formy struktury VA(TH)No2 (Static analysis of spherical form of VA(TH)No structure)*, Czasopismo Techniczne Politechniki Krakowskiej, Vol. 11, Year 108, 2-A/2/2011, pp. 309-315.

28. Rębielak Janusz: *Budynek o zespolonej formie systemu konstrukcyjnego (Building of combined form of structural system)*, Czasopismo Techniczne Politechniki Krakowskiej, Vol. 11, Year 108, 2-A/2/2011, pp. 303-308.

29. Rębielak Janusz: *Combined form of structural system proposed for tall buildings,* Taller, Longer, Lighter - Proceedings of IABSE-IASS Symposium, London, 20-23 September, 2011, p. 308, full paper – on attached CD.

30. Rębielak Janusz: *Symetrie w systemach architektonicznych (Symmetries in architectonic systems – in Polish)*, Człowiek, kultura, historia, Seminaria Interdyscyplinarne pod redakcją Ewy Dobierzewskiej-Mozrzymas i Adama Jezierskiego, Tom XV, Wydawnictwo Uniwersytetu Wrocławskiego Wrocław, 2011, pp. 175-187.

31. Rębielak Janusz, Kopka Wojciech, Mikołajewski Jarosław: *Analizy statyczne wybranych form konstrukcji prętowo-cięgnowych (Static analyses of selected forms of tension-strut structures – in Polish)*, XV Międzynarodowa Szkoła Komputerowego Wspomagania

Projektowania, Wytwarzania i Eksploatacji, Wojskowa Akademia Techniczna, Warszawa-Jurata, 09-13 May, 2011, Vol. 2, pp. 289-298, full paper is published on CD attached to the Journal „Mechanik", No 7, 2011.

32. Rębielak Janusz, Mikołajewski Jarosław: *Analiza statyczna modułowo sprężonego wspornika strukturalnego (Static analysis of modular pre-stressed spatial cantilever – in Polish)*, XV Międzynarodowa Szkoła Komputerowego Wspomagania Projektowania, Wytwarzania i Eksploatacji, Wojskowa Akademia Techniczna, Warszawa-Jurata, 09-13 May, 2011, Vol. 2, pp. 279-288, full paper published on CD attached to the Journal „Mechanik", No 7, 2011.

33. Rębielak Janusz: *Koncepcja zespolonej postaci fundamentu oraz struktury nośnej budynku (The concept of combined shape of foundation and carrying structure of a building – in Polish)*, XV Międzynarodowa Szkoła Komputerowego Wspomagania Projektowania, Wytwarzania i Eksploatacji, Wojskowa Akademia Techniczna, Warszawa-Jurata, 09-13 May, 2011, Vol. 2, pp. 269-278, full paper published on CD attached to the Journal „Mechanik", No 7, 2011.

34. Rębielak Janusz: *Systemowy fundament zespolony (System of combined foundation – in Polish,* Patent registration, Patent Office of the Republic of Poland, Patent Application No P.394745), 2011.

35. Rębielak Janusz: *JR Tetra System – propozycje zastosowań w konstrukcjach przekryć dachowych (JR Tetra System –proposals of applications in structures of roof covers)*, Nowoczesne Hale, No 2, 2011, pp. 63-66.

36. Rębielak Janusz: *Koncepcje prętowo-cięgnowych systemów przekryć dachowych (Tension-strut systems proposed for roof structures - in Polish)*, Inżynieria i Budownictwo, No 1, 2011, pp. 3-8.

37. Rębielak Janusz: *Geometrical and numerical order of some architectonic structures* – abstract of the invited lecture, Proceedings of 6th International Conference "Mathematics & Design 2010", Buenos Aires, Argentina, 7-11 June 2010, Journal of Mathematics & Design, Vol. 10, No 1, pp. 209-210.

38. Rębielak Janusz: *Structural systems shaped for tall objects*, in: Spatial structures – temporary and permanent, eds. Q. Zhang, L. Yang, Y. Hu, International Symposium of the International Association for Shell and Spatial Structures, Shanghai, China, November 8-12, 2010, China Architecture & Building Press, pp. 1991-1998.

39. Rębielak Janusz: *Morphology of roof structure systems designer by means of lenticular girder*, in: Spatial structures – temporary and permanent, eds. Q. Zhang, L. Yang, Y. Hu, International Symposium of the International Association for Shell and Spatial Structures, Shanghai, China, November 8-12, 2010, China Architecture & Building Press, pp. 1249-1256.

40. Jurczakiewicz Stanisław, Rębielak Janusz: *Wstępna analiza statyczna jednej z odmian konstrukcji typu JR Tetra System*, (Initial static analyses of one type of the JR Tetra System structure – in Polish), Zeszyty Naukowe Politechniki Rzeszowskiej, nr 276, Budownictwo i Inżynieria Środowiska, zeszyt nr 58, 1/2011, pp. 161-170.

41. Bać Zbigniew, Rębielak Janusz: *Obiekty centralne w autorskiej koncepcji projektowej dla Expo Wrocław 2010*, (Central objects in authors design concept for Expo Wroclaw 2010 – in

Polish), Zeszyty Naukowe Politechniki Rzeszowskiej, nr 276, Budownictwo i Inżynieria Środowiska, zeszyt nr 58, 1/2011, pp. 31-34.

42. Rębielak *Janusz: Regularity in structural forms and numerical models of basic types of lenticular girder*, Symmetry: Art and Science, The Journal of the International Society for the Interdisciplinary Study of Symmetry, Nos 1-4, 2010, pp. 258-261.

43. Rębielak Janusz: *Numerical models of lightweight roof structures*, Proceedings of Fourth International Conference on Structural Engineering, Mechanics and Computation, Cape Town, South Africa, September 6-8, 2010, Advances and Trends in Structural Engineering, Mechanics and Computation – A. Zingoni (Ed.), 2010 Taylor & Francis Group, ISBN 978-0-415-58472-2, London, 2010, pp. 347-350.

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