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| **Josip Brnić** / November, 2020.  D:\Brnic\Dokumenti\BRNIC & KRK\BRNIĆ SLIKE\NOVE-B-2-5-2018\002.JPG  **E-mail address**:   * [brnic@riteh.hr](mailto:brnic@riteh.hr)   **Academic titles & Institutions**:   * *Professor Emeritus* (1.10.2018.), University of Rijeka, Faculty of Engineering * *Full professor* (1996), doctor of technical sciences (1988), University of Rijeka, Faculty of Engineering * *Professor with tenure* (2000) – University of Rijeka, Faculty of Engineering * *Honorary Professor* (2011) - Henan Polytechnic University, Jiaozuo, China * *Consulting Professor* (2012) - Harbin Institute of Technology, Harbin, China * *Guest Professor* (2017) - Huazhong University of Science and Technology, Wuhan, China * *Visiting Professor* (2018) – Shenyang University of Technology, Shenyang, China   **Membership in the academies**:   * Croatian Academy of Sciences and Arts *– associate member* – Department of technical sciences (30.01.1997., 2008 – in tenure) * Croatian Academy of Engineering – *full member* (1997) * International Academy of Engineering Science, Moscow – *associate member* (2013) |

* **BIBLIOGRAPHY  
  Professor Josip Brnić, D. Sc., M. Sc., Dipl. Ing., Professor Emeritus**
* Professor of Faculty of Engineering, University of Rijeka   
  (Former rector of University of Rijeka and former dean of Faculty of Engineering)   
  &
* Honorary Professor at the Henan Polytechnic University, Jiaozuo, China
* Consulting Professor at the Harbin Institute of Technology, Harbin, China
* Guest Professor at the Huazhong University of Science and Technology, Wuhan, China
  + Visiting Professor at the Shenyang University of Technology, Shenyang, China

**1. GENERAL DATA**

Professor Josip Brnić, D. Sc., was born in 1951. on the Island of Krk, Croatia. Primary and secondary education was acquired on the island of Krk. He graduated in Mechanical Engineering at the Faculty of Engineering, University of Rijeka (Croatia). He received his master’s degree at the Faculty of Mechanical Engineering, University of Ljubljana (Slovenia) and his doctoral degree at the Faculty of Engineering, University of Rijeka (Croatia). Currently he is professor with tenure at the Faculty of Engineering, University of Rijeka. One period, at the beginning of his career (12 years) he worked in parallel as a university professor at the Faculty of Engineering at the Department of Engineering Mechanics and in the project organization "Brodoprojekt" Rijeka on structure analyzes of submarines and other floating objects. He was **Vice-Dean** and **Dean** (two mandates) of the Faculty of Engineering of the University of Rijeka**, Vice-Rector** and **Rector** of the University of Rijeka. He was a member of the National Council for Science of the Republic of Croatia (two mandates), and President of the Scientific Council for Engineering Sciences of the Republic of Croatia (three mandates). Also, he is an Associate member of the Croatian Academy of Sciences and Arts. Apart from being active at the Faculty of Engineering, University of Rijeka, he is teaching also on doctoral study at the Faculty of Mechanical Engineering Slavonski Brod / Croatia. He gave a number of lectures at the Harbin Institute of Technology (Harbin / China), Tai-Yuan University (Tai- Yuan / China), Huazhong University of Science and Technology (Wuhan / China), Shanghai University (Shanghai / China), Shenyang University of Technology (Shenyang / China) as well as at Henan Polytechnic University (Jiaozuo / China). His scientific researches are focused primarily on two essential points, the first of which is numerical analysis of structures and machines using finite element method and the second referring to the experimental analysis of the material behavior of structure subjected to different environmental conditions, i.e., to different stress levels and differenet temperatures (lowered and elevated temperature regime), creep and fatigue. He is a mentor to candidates for doctoral theses, masters and diploma theses. He is a reviewer of scientific papers for several prestigious international journals indexed in Current Contents as well as many books. He speaks English and uses German and Slovenian.

* **Of the other details are stated:**
* He was elected as Honorary Professor at the Henan Plytechnic University, Jiaozuo, China, 09. 2011.
* He was elected as Consulting Professor at the Harbin Institute of Technology, Harbin, China, 06. 2012.
* He was elected as Guest Professor at the Huazhong University of Science and Technology, Wuhan, China, 09. 2017.
* He was elected as Visiting Professor at the Shenyang Universiy of Technology, Shenyang, China, 05. 2018.
* He is an associate member of Croatian Academy of Sciences and Arts, 1997, re-selection (tenure) 2008.
* He is a member of the Marine technology section of Croatian Academy of Sciences and Arts.
* He is a full member of the “Scientific council for the traffic” of the Croatian Academy of Sciences and Arts.
* He is a member of International Academy of Engineering Science, Moscow, 2013.
* He is a full member of Croatian Academy of Engineering, 1997- .
* He is a member of the “Scientific council” of Croatian Academy of Engineering, 2017.-.
* He was a member of the National council for science of the Republic of Croatia, 2005. (4 years), 2009. (4 years).
* He was a president of the Scientific Council for technical sciences, 2005. (4 years), 2009. (4 years), 2013. (4 years).
* He was a member of the Expert Committee of the National council for science and technology of the Republic of Croatia, for making the rulebook on conditions for selection in scientific titles, 06.2014-2017.
* He is a reviewer of the research papers for the following journals indexed in Current Contents (CC): *Journal of Testing and Evaluation; Finite Element in Analysis and Design (FINEL); Materials and Design; Journal of Engineering Materials and Technology; Metallurgical and Materials Transactions A (MMTA); Bulletin of Materials Science; Journal of Constructional Steel Research; High Temperature Materials and Processes; Materials Science and Engineering B; Journal of Structural Engineering; Materials Science and Engineering A; Engineering Structures; Nuclear Engineering and Design; Materials and Structures; Journal of Materials Engineering and Performance; Steel and Composite Structure; Transactions of FAMENA (SCIEx); Strojniški vestnik- Journal of Mechanical Engineering (SCIEx); TEHNIČKI VJESNIK - TECHNICAL GAZETTE (SCIEx); Steel Research International; Mechanics of Time- Dependent Materials; Theoretical and Applied Fracture Mechanics; Advances in Computational Design; Thin -Walled Structures; Materials; Metals; Journal of Mechanics; International Journal of Applied Mechanics; International Journal of Fatigue; Materials Transactions; International Journal of Rock Mecanics and Mining Sciences; Advances in Computational Design (ESCI); Journal of Composite Science (Inspec); Machines (ESCI); Vacuum, Engineering Fracture Mechanics; Composite Structure; Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering. International Journal of Pressure Vessels and Piping.*
* He is a professor on the doctoral studies at the Faculty of Engineering in Slavonski Brod.
* He is a member in more than 50 scientific and expert organizations such as those in Austria, Hungary, Poland, Bulgaria, India, China, Finland, etc,as well as in Croatia.
* He was a member of the Slovak State Commission for Final Exams.
* He is a member of the Croatian ship register, department: hull and equipment.
* He is the author of 11 books: 1 book is published by Wiley & Sons, 3 books are published by “Školska knjiga”, Zagreb, 2 books are published in PAMM centre Budapest, 3 books are published by Faculty of Engineering, University of Rijeka, 1 book is published by “ Zigo”, Rijeka and 1 book is published by “Fintrade & tours”, Rijeka.
* He has published more than **300 research papers** in international journalsand conference proceedings as well as in domestic journals and conference proceedings. A large number of papers have been published in international journals indexed in **Web of Science (CC / SCI / SCIEx,** see list of published papers**)**.
* **Journals indexed in Current Contents (CC), where mentioned papers of the author Josip Brnic have been published are***: Meccanica; Journal of Engineering Mechanics; Materials  & Design; Mechanics Research Communications; Mechanics of Time-Dependent Materials; Composite Structures; High Temperature Materials and Processes; Journal of Engineering Materials and Technology; Journal of Testing and Evaluation; Bulletin of Materials Science; Int. Journal of Materials  Science & Technology; Computers & Structures; Int. Journal of Plasticity; Proc. IMechE, Part G: J. Aerospace Engineering; Communications in Numerical Methods in Engineering; Int. Journal of Structural Stability & Dynamics; Materials Science and Engineering A; Materials Science and Engineering B; Journal of Constructural Steel Research; Journal of Materials in Civil Engineering; Steel and Composite Strucrures; Structural Engineering and Mechanics; Materials; Metals; Journal of Mechanics; International Journal of Applied Mechanics,* *International Journal for Multiscale Computational Engineering, etc.*
* **Journals indexed in Science Citation Index-u (SCI) te SCIEx**, **where mentioned papers have been published:** *Constructional and Building Materials; International Journal of Minerals, Metallurgy and Materials; Journal of Wuhan University of Technology-Mater. Sci. Ed.; Materials and Manufacturing Processes; Transactions of Famena; Journal of Theoretical and Applied Mechanics.*
* **Journals indexed in other bases such as: Material Science Citation Index, Applied Mechanics Reviews, Zentralblatt Math, Cambridge Scientific Abstracts**, etc., where some papers are published are:   *Bulletins for Applied & Computer Mathematics; Transactions on Mathematics & Physics; etc*. **Some of papers are published in the proceedings of the international** **conferences** held in France, Hungary, India, Sweden, Italy, Denmark, Austria, Romania, Belgium, Finland, China, Greece, Czech Republic, Poland, Portugal, Estonia, SAD, etc.
* He has scientifically trained at several institutions (“Brodarski institut” (shiping institute),  Zagreb; International Centre for Mechanical Sciences, CISM, Udine; Hottinger Baldwin Messtechnik; Fraunhofer Institut – Darmstadt; Faculty of Mechanical Engineering, Brno; Technische Universität Wien).
* He has held a numbr of invited and plenary lectures in abroad and in Croatia, such as those in India, Hungary, Czech Republic, Romania, China, Estonia, USA, etc.
* On the invitation of international universities, such as: Harbin Institute of Technology, (Harbin, China), University of Tai -Yuan (China), Henan Polytechnic University (School of Materials Science and Engineering, Jiaozuo, China), Huazhong University of Science and Technology (School of Material Science and Engineering, Wuhan, China), Beijing Institute of Technology (Beijing , Chin); Shanghai University (Shanghai, China), Shenyang University of Technology (Shenyang, China) he has held a large number of the lectures for the students. The themes of these lectures belong to the following areas: Finite element method, experimental investigations related to the material behavior at room and high / low temperatures, Fracture Mechanics, creep behavior of metals, etc.
* He is the leader of the scientific project, titled „Assessment of structural behaviour in limit state   operating conditions“   financially supported by Croatian Science Foundation (CSF- Croatia Science Foundation, 07. 2014- 07. 2018).
* He is the collaborator on the scientific project of HRZZ (CSF), Croatian Science Foundation: “Estimation of the carrying capacity of engineering structures” , Leader, prof. D. Lanc.
* He is the leader of the bilateral research projects: **1)** „Metal alloys behavior at different environmental conditions- testing and numerical simulatios“, between **Croatia** (Faculty of Engineering Rijeka – Department of Engineering Mechanics) and **China** (School of Materials Science and Engineering-Henan Polytechnic University, leader: Prof. Jitai Niu, Ph.D), **2)** „Analysis of conditions for control of metal forming processes”, between **Croatia** (Faculty of Engineering Rijeka – Department of Engineering Mechanics) and **Slovenia** (Faculty of Mechanical Engineering – Ljubljana, Chair for manufacturing technologies and systems / Laboratory for reshaping – Ljubljana, leader : Prof. Karl Kuzman, Ph.D. / Prof. Tomaž Pepelnjak, Ph. D.), **3)** „Material properties, creep behavior, fracture toughness and microstructure of metal alloys – experimental analysis and numerical simulations“, between **Croatia** (Faculty of Engineering Rijeka – Department of Engineering Mechanics) and **China**  (School of Materials Science and Engineering-Henan Polytechnic University, leader: Prof. Jitai Niu, Ph.D Henan Polytechnic University,  **4)** „Influence of Heat Affected Zone of electron beam welded steel casting GX4CrNi13-4 on the fatigue strength”, between **Croatia** (Faculty of Engineering Rijeka – Department of Engineering Mechanics) and **Austria** , TU Graz, leader: Dr. Rudolf Vallant (Institute for Materials Science and Welding (IWS), Graz University of Technology).
* He has worked on several research and professional projects, especially those financially supported by Ministry of science and technology of the Republic of Croatia (1991-2013), as well as on the research project financially supported by Croatian Science Foundation.
* He has introduced new courses and subjects at the university undergraduate, graduate and postgraduate (doctoral) studies of the Faculty of Engineering.
* He is a mentor to a doctoral candidates, as well as for master and diploma theses.
* Some scholars who received a doctorate under his mentorship received the State awards for Science of the Republic of Croatia for the field of technical sciences and the Annual Prize of Science Foundation of the University of Rijeka. Also, one scholar who received master degree under his metorship, received the Annual Prize of Science Foundation of the University of Rijeka.
* He has reviewed several books and large number of research papers.
* **Awards:**
* **The State Award for Science- Lifetime Achievement Award (2019)**, Republic of Croatia, Ministry of Science and Education, for 2018 year, in the field of technical sciences.
* Acknowledgments for achievements in 2017 year that contributed to the promotion, progress and reputation of the University of Rijeka (Rector, Prof. Snježana Prijić-Samaržija, Ph. D.).
* Memorial plaque as recognition and gratitude for the contribution in the development and operation of the University of Rijeka, from its founding to the present, 2013 (Rector, prof. Pero Lucin, Ph. D.)
* Lifetime Achievement Award of the Foundation of the University of Rijeka (2012.) for the academic year 2010-2011.
* Award of the Croatian Academy of Sciences and Arts for the highest scientific achievements in 2010 for Engineering Sciences.
* 2nd Zwick Science Award, 2009, Ulm, Germany.
* Award of University Rijeka Foundation for research in the field of technical sciences in 2004.
* Recognition for the scientific work of the Croatian Association of Production Engineering, 1999.
* Special Award of ÖIAV (Österreichischer Ingenieur und Architekten Verein) and DAAAM International for Significant Contribution in the Field of Engineering, Excellence in Science, and International Academic and Scientific Cooperation in Middle European Region Within the Framework of the Danube Adria Association for Automation & Manufacturing and Austrian Society of Engineers and Architects, Vienna & Cluj-Napoca, October 22, 1998.
* Annual State Science Award of the Republic of Croatia for significant scientific achievements in the field of engineering sciences in 1997.
* Certificate, Awarded to Prof. Josip Brnić, D.Sc., DAAAM International, Vienna, October 17-19, 1996.
* Medal of the Croatian President: The Order of Croatian Danica with the Figure of Ruder Boskovic for special contribution to science, 1995.
* Award of the City of Rijeka for the work and creativity, 1994.
* He speaks English and uses German and Slovenian.

**1.1. BASIC DATA**

* Year and the place of birth:  1951., Sv. Ivan, island Krk
* Parents:   Josip (late) and Tonica (late) - (born. Vicić)
* Nationality: Croatian
* Home Address: Drage Gervaisa 41, 51000 Rijeka

**1.2. EDUCATION**

* 1958.-1966.        Basic school: Dobrinj (the island of Krk)
* 1966.-1970.        Highschool Education: gymnasium “Čedo Žic ", Krk
* 1970.-1976. (February)    High education: Faculty of Engineering (Rijeka / Croatia); Dipl. Ing.
* 1979.-1983 Master’s degree / M. Sc.: Faculty of Mechanical Engineering, (Ljubljana / Slovenia), area: Mechanical Engineering /Mechanics of structures
* 1988.            Doctor’s degree / D. Sc.: The Faculty of Engineering (Rijeka /Croatia), in the area: Engineering Sciences/ Mechanical Engineering.

**1.3. ADVANCED EDUCATION / SCIENTIFIC ADVANCEMENT**

* 1990.    Brodarski institut, Zagreb: Dynamic response of structures
* 1990.    International Centre for Mechanical Sciences, CISM, Udine: Shape and layout optimization of structural systems
* 1991.     International Centre for Mechanical Sciences, CISM, Udine: Nonlinear analysis of shells by finite elements.
* 1992.    Hottinger Baldwin Messtechnik, Schenk, Fraunhofer Institut - Darmstadt
* 1995.    Faculty of Mechanical Engineering, Brno: Structural analysis
* 1996.    Faculty of Mechanical Engineering, Brno: Structural analysis
* 2002.    Technische Universität Wien, Structural optimization
* ………………………

**1.3.1. Shorter stays and visits to universities and colleges**  
 **Universities:**

* Beijing Institute of Technology, Beijing, China
* Tai Yuan University, Tai-Yuan, China
* Shanghai University, Shanghai, China
* Harbin Institute of Technology, Harbin, China
* Henan Polytechnic University, Jiaozuo, China
* Shenyang University of Technology, Shenyang, China
* Huazhong University of Science and Technology, Wuhan, China
* University of Technology – Vienna, Austria,
* Technical University of Brno, Czech Republic,
* Technical University of Budapest, Hungary,
* Cracow University of Technology, Poland,
* University of Rostock, Germany,
* Gazi University, Turkey,
* Ankara University, Turkey,
* Hacettepe University, Turkey,
* Uludaq University, Turkey,
* Bursa Universtiy, Turkey,
* Istanbul University, Turkey,
* Eskesehir University, Turkey,
* Politechnica Timisoara, Romania
* Universities in Croatia

**Colleges:**

* School of Materials Science and Engineering, Huazhong University of Science and Technology, Wuhan, China,
* School of Materials Science and Engineering, Harbin Institute of Technology, Harbin, China,
* School of Materials Science and Engineering, Henan Polytechnic University, Jioaozuo,China,
* Faculty of Mechanical Engineering, Ljubljana, Slovenia,
* Faculty of Mechanical Engineering, Maribor, Slovenia,
* Faculty of Engineering - Udine, Trieste, Italy,
* Facutly of Mechanical Engineering, Brno, Czech Republic,
* Faculty of Transportation Engineering, Budapest, Hungary,
* Faculty of Mechanical Engineering, Cracow, Poland,
* Faculty of Engineering, Rostock, Germany,
* Fakultät fűr Verkehr und Logistik,Rostock, Germany,
* Faculty of Technology in Zlin, Czech Republic,
* Materialovo-technologicka faculta v Trnave, Slovakia,
* Technische Hochschule Darmstadt, Germany,
* Faculty of Engineering – Kaiserslautern, Germany,
* Politechnica – University of Timisoara, Romania,
* Ecole Polytechnique – Palaiseau, France,
* Colleges in Croatia, etc.

**1.4. WORK EXPERIENCE**

* 1976.-1990.    "**Brodoprojekt**", Rijeka, designer of structures of special facilities
* 1977.-    **Faculty of Engineering, Rijeka**, part time job
* 1977.    **Assistant, Department of Engineering Mechanics**
* 1978.-1979.    Military service
* 1987.    Entrusted lectures: Strength of Materials I, II (university undergraduate study), and Strength of Materials (professional study).
* 1989. **Research associate, assistant professor** –  fields: Mechanical Engineering, Naval Architecture
* 1990.  **Faculty of Engineering, permanent employment (full time job)**  
    
  **Lectures (assistant professor) :**  
  *University undergraduate and graduate study*:
  + Statics, Strength of Materials I (Structural Strength I), Strength of Materials II (Structural Strength II), Elastomechanics and Plastomechanics,   Finite Element Method

*Postgraduate (doctoral) study*:

* + Elastomechanics and Plastomechanics, Viskoplasticity, Finite Element Method
* 1991.-1993.    Manager of university study of Faculty of Engineering: Mechanical Engineering
* 1992.     Subject leader:  
  Stress analysis of the ship hull, postgraduate study at the Faculty of Maritime Studies, Rijeka1993.
* 1993. **Vice-Dean** for teaching, Faculty of Engineering
* 1993**. Senior research associate, associate professor**– fields: Mechanical Engineering, Naval Architecture

**Lectures (associate professor)**:  
 *University undergraduate and graduate study*:

* + Statics, Strength of Materials I (Structural Strength I), Strength of Materials II (Structural Strength II), Elastomechanics and Plastomechanics,   Finite Element Method

*Postgraduate study*:

* + Elastomechanics and Plastomechanics, Viskoplasticity, Finite Element Method
* 1994.-1996.    **Dean, Faculty of Engineering – first mandate**
* 1995.    President of the Commission for the Development of New Curricula for Postgraduate and University Undergraduate Studies in Mechanical Engineering and Naval Architecture
* 1996.-1998 **Dean, Faculty of Engineering – second mandate**
* 1996.   **Professor (Full Professor)**– fields: Mechanical Engineering, Naval Architecture

**Lectures (professor)**

*University undergraduate and graduate study*:

* + Statics, Strength of Materials I (Structural Strength I), Strength of Materials II (Structural Strength II), Elastomechanics and Plastomechanics,   Finite Element Method

*Postgraduate study*:

* + Elastomechanics and Plastomechanics, Viskoplasticity, Finite Element Method
* 1998. –1999.    **Vice – rector for scientific work and international relationship, University of Rijeka**.
* 1999. -2000.     **Rector of University of Rijeka**.
* 2000.    **Professor with tenure** – fields: Mechanical Engineering, Fundamental engineering sciences
* 2002.- 2017.   **Head of Department of Engineering Mechanics**, Faculty of Engineering Rijeka

**Leader of the subjects / Lectures (professor with tenure):**

* *Postgrauate scientific study* – Faculty of Engineering Rijeka: Elastomechanics and Plastomechanics, Viscoelasticity and Viscoplasticity, Structural Optimization, Finite Element Method of Solid Bodies, Computer Modeling of Plastic Metal Shaping.
* *Postgrauate scientific study* – Faculty of Mechanical Engineering –Slavonski Brod: Elastomechanics and Plastomechanics.
* *University graduate study in* Mechanical Engineering and Naval Architecture – Faculty of Engineering Rijeka: Statics, Strength of Materials I (Structural Strength I), Strength of Materials II (Structural Strength II), Elastomechanics and Plastomechanics,   Finite Element Method of Solid Bodies.
* Professional study of electrical engineering – Faculty of Engineering: Mechanics and structural elements.

The existing postgraduate study program was a master's degree, while for the doctoral degree there was only scientific research. Further, university study was a university graduate study (5 years). Afterwards, postgraduate scientific study becomes a doctoral degree, a master's degree is removed, and the university study (Bologna Process) is divided into university undergraduate (3 years) and university graduate study (2 years).

**Lectures – currently**

* *University undergraduate study*

Statics, Strength of Matrials I,

* *University graduate study*

Finite element methof in solids, Optimal design of structures

* *Doctoral study*

*Elastomechancs and plastomechanics, Finite element method and optimization of structures*

**1.5. MEMBERSHIPS (TITLES) AND FUNCTIONS IN SCIENTIFIC - PROFESSIONAL ORGANIZATIONS, BOARDS AND COMMITTEES**

1. Head of the university study of Mechanical Engineering at the Faculty of Engineering Rijeka (1991-1993).
2. Vice-President of the Croatian Society of Mechanics, 1991-1994, and later a member.
3. President of a Subsidiary of the Croatian Society of Mechanics for Rijeka, 1991 - 1994, 1998-2000.
4. Prodekan za nastavu Tehničkog fakulteta u Rijeci, 1993
5. He is a member of the Croatian ship register, department: hull and equipment, 1993-.
6. Member of the Committee for Postgraduate Studies (1993 -2017)
7. Dean of Faculty of Engineering Rijeka ( 1994 - 1996, 1996 - 1998 )
8. President of the Commission for Developing a new Faculty curriculum (1994 - 1998)
9. President of the Commission for Teaching at the Faculty of Engineering (1994-1998)
10. Member of the Editorial Staff of Engineering Review, Scientific Journal for New Technology in Mechanical Engineering, Naval Architecture and Electrical Engineering, the Faculty of Engineering, Rijeka, 1995.
11. Member of International Scientific Advisory Board of the Journal Shipbuilding, publisher: Brodarski Institut, Zagreb, since 1996.
12. Member of the Parent Committee for the selection of teachers in the field: Mechanical Engineering, Naval Architecture, Fundamental Engineering Sciences, (1994-1998).
13. He is an associate member of Croatian Academy of Sciences and Arts, 1997, re-selection (tenure) 2008.
14. He is a member of the Marine technology section of Croatian Academy of Sciences and Arts.
15. He is a full member of the Scientific Council for the traffic of the Croatian Academy of Sciences and Arts.
16. He is a member of International Academy of Engineering Science, Moskva, 2013.
17. He is a full member of Croatian Academy of Engineering, 1997- .
18. He is a member of the Scientific Council of Croatian Academy of Engineering, 2017.
19. Member of the Senate of the University of Rijeka (during the term of Dean Period: 1994-1998, and during the term of Rector Period: 1999-2000).
20. Member of the County Board for Higher Education, since July 1996.
21. Member of an Expert Team of the Croatian Parliament for Engineering Sciences for the division of state awards for science, 1996 (mandate of 4 years).
22. Reviewer of scientific-research projects in the field of Engineering, funded by the Ministry of Science and Technology of Croatia, 1996/97; 2007th
23. Member of Council of International Centers of Croatian Universities, 1997.
24. Member of the Croatian branch CEACM (Central European Association for Computational Mechanics), 1997.
25. Representative of the University of Rijeka in the Interuniversity Network for Doctoral Studies, Vienna (Founded in Cluj - Napoca, October 22, 1998).
26. He is an associate member of Croatian Academy of Sciences and Arts, 1997, re-selection (tenure) 2008.
27. Member of the Examination Board of the Final State Examinations of the Graduates in Machine Technology, Slovenska Technicka Univerza v Bratislave, Materialovo-technologicka faculta v Trnave, 1997.
28. Vice-Rector for Science and International Cooperation of the University of Rijeka, 1998.
29. Rector of the University of Rijekak, 1999-2000.
30. President of the Commission for International Relations at the Faculty of Engineering Rijeka (2000-2004).
31. Head of the Department of Engineering Mechanics, Faculty of Engineering, 2002-2017.
32. Head of the postgraduate scientific study of the Faculty of Engineering Rijeka (2002-2004)
33. Head of the Module “Computational Mechanics” at the postgraduate study (doctora) at the Faculty of Engineering Rijeka., since 2004.
34. He was a member of the National council for science of the Republic of Croatia, 2005. (4 years), 2009. (4 years).
35. President of the Scientific Council for technical sciences, 2005. (4 years), 2009. (4 years), 2013. (4 years).
36. Member (and President) of the Council for equipment purchase of the Ministry of Science, Education and Sports (several times since 2007).
37. Member of the Examination Board of the Final State Examinations of the Graduates in Machine Technology, Slovenska Technicka Univerza v Bratislave, Materialovo-technologicka faculta v Trnave, since 1997.
38. Member of the Committee of the National Council of Science and the National Foundation of Science for scientific projects, since 2008.
39. Member of the Council of Science of the University of Rijeka, 2010-2016.
40. Member of the Expert Committee of the National Council for Science and Technology of the Republic of Croatia, for determination the criteria on the conditions for selection in scientific vocations, 06.2014 - 2017.
41. A member of the Panel for evaluation of research projects of Croatian Science Foundation, 2015

**1.6. MEMBERSHIPS (TITLES) RELATED TO SCIENTIFIC / PRORAMME / ORGANIZING**

**COMMITTEES OF INTERNATIONAL / DOMESTIC CONFERENCES AND JOURNALS**

1. Member of the Scientific Committee of the Pannonian Applied Mathematical Meetings (PAMM), 1994.
2. Member of the Organizing Committee of the International Congress - Energy and the Environment, Opatija, 1994.
3. Member of the Organizing Committee of the Symposium HDO (Croatian Society of Maintainers), Opatija, 1994.
4. Member of the Scientific Committee of the 6th International DAAAM Symposium, Krakow, 1995. (DAAAM: Danube Adria Association for Automation and Metrology)
5. Member of the Editorial Staff of Engineering Review, Scientific Journal for New Technology in Mechanical Engineering, Naval Architecture and Electrical Engineering, Faculty of Engineering, Rijeka, 1995.
6. Member of the Scientific DAAAM International Committee of the 7th International DAAAM Symposium, Vienna, 1996.
7. Member of the Honour Committee of the 4th International Conference on Advanced Manufacturing Systems and Technology (AMST '96), Udine, September 1996.
8. Member of the Organizing Committee of the International Congress - Energy and the Environment, Opatija, October 23-25, 1996.
9. Member of the Reviewing Committee of the 7th International DAAAM Symposium, Vienna, 1996.
10. Member of the Organizing Committee of the 3rd International Symposium HDO (Croatian Society of Maintainers), Opatija, 1996.
11. Član Međunarodnog znanstvenog savjeta časopisa Brodogradnja, izdavač: Brodarski Institut, 1996.
12. Member of the Scientific Council of the Monographical Booklets of the Pannonian Applied Mathematical Meetings as Interuniversity Network, 1996.
13. Member of the Editorial Staff of the Monographical Booklets of the Pannonian Applied Mathematical Meetings as Interuniversity Network, 1996.
14. Member of the International Scientific Committee of the 2nd Congress of the Croatian Society of Mechanics, Brač, 1997.
15. Member of the International Program Committee of the 3rd International Scientific Colloquium: Computer - Aided Engineering Techniques '97 (CAE Techniques 97'), Rzeszow, Poland, 1997.
16. Member of the Honor Committee of the 4th Interantional Conference on Production Engineering, CIM '97 (Computer Integrated Manufacturing and High Speed Machining), Opatija, 1997.
17. Member of the International Scientific and Review Committee of the 4th International Conference on Production Engineering, CIM ’97, Opatija, 1997.
18. Member of the International Program Committee of the 8th International DAAAM Symposium, Vienna – Dubrnovnik, 1997.
19. Member of the Scientific and Programme Committee of the Fourth International Scientific and Technical Conference, MOTAUTO '97, Sofia, Bulgaria, 1997.
20. Member of the Editorial Board of the International Conference on Recent Advances in Metallurgical Processes, Bangalore, India, 1997.
21. Member of the Review Committee of the International Conference on Recent Advances in Metallurgical Processes, Bangalore, India, 1997.
22. Member of the Program Committee of the first International Conference: Management of business system – University of Mostar, The Faculty of Mechanical Engineering, 1997.
23. Member of the International Programme Committee of the 5th International Design Conference, DESIGN '98, Dubrovnik, 1998.
24. Member of the Scientific and Programme Committee of the Fifth International-Technical Conference on Internal Combustion Engines and Motor Vehicles, MOTAUTO ’98, Sofia, Bulgaria, 1998.
25. Member of the International Program Committee of the 9th International DAAAM Symposium, Vienna – Cluj-Napoca, 1998.
26. Member of the Program Committee of the International Conference: Welding in Maritime Engineering, Malinska, Island Krk, 1998.
27. Member of the National Organizing Committee of the 3rd International Conference EEDEEQ ’98: Maintenance of Electrical Machines, Transformers and Equipment & Electrical Energy Quality, Rovinj, 1998.
28. Member of the Honour Committee of the International Congress: Energy and the Environment, Opatija, 1998.
29. Member of the Scientific Committee of Journal: Elektrotechnik und Informationstechnik, ŐVE - Verbandszeitschrift, Springer, Wien, since 1998.
30. Member of the International Program Committee of the 4th International Scientific Colloqium "CAx Techniques '99", Bielefeld, Germany, 1999.
31. Member of the Program Committee of the International Conference on Industrial Tools, Maribor, Slovenia, 1999.
32. Member of the International Program Committee of the 10th International DAAAM Symposium, Vienna, 1999.
33. Member of the Scientific and Programme Committee of he 6th International Scientific-Technical Conference on Internal Combustion Engines and Motor Vehicles, Plovdiv, Bulgaria, 1999.
34. Member of the Honour Committee of the 5th International Scientific Conference on Production Engineering, CIM '99, Opatija, 1999.
35. Member of the Scientific and Review Committee of the 5th International Scientific Conference on Production Engineering, CIM '99, Opatija, 1999.
36. Member of International Scientific Committee of the Third International Conference on Physical and Numerical Simulation of Materials and Hot Working, ICPNS ’99, Peking,  1999.
37. Member of the Honour Committee of the 5th International Conference on Advanced Manufacturing Systems and Technology (AMST, 99), Udine.
38. Member of the Scientific Committee of the 3rd International Congress of Croatian Society of Mechanics, Cavtat/Dubrovnik, 2000.
39. Member of the Program Committee of the 4th multidisciplinary symposium - Modeling in Science, Technology and Society, Rijeka, 2000.
40. Member of the Programme Committe of the International Conference on Industrial Tools, ICIT 2001, Maribor, Slovenia, 2001.
41. Member of the International Programme Committee of the 13th International DAAAM Symposium, Vienna, Austria, 2002.
42. Member of the Scientific Committee of the International Scientific-Technical Conference on Internal Combustion Engines and Motor Vehicles - Motauto ’02, Russe, Bulgaria, 2002.
43. Member of the Programme Committe of the International Conference on Industrial Tools, ICIT 2003, Maribor, Slovenia, 2003.
44. Member of the Scientific and Review Committee of the 9th International Scientific Conference on Production Engineering, CIM 2003, Lumbarda, 2003.
45. Member of the Scientific Committee of the 4th International Congress of Croatian Society of Mechanics, Bizovac, 2003.
46. 46.    Member of the International Programme Committee of the 14th International DAAAM Symposium, Sarajevo, Bosnia and Herzegovina, 2003.
47. Member of the International Scientific Committee of the 4th International Conference on Production Engineering, RIM 2003 (Development and Modernization of Production – Razvoj i modernizacija proizvodnje) Bihać, Bosnia and Herzegovina, 2003.
48. Member of the Scientific Committee of the International Scientific-Technical Conference on Internal Combustion Engines and Motor Vehicles - Motauto ’03, Sofia, Bulgaria, 2003.
49. Member of the Scientific Committee of the 4th International Conference on Physical and Numerical Simulations of Materials Processing, Shangai, China, 2004.
50. Member of the International Scientific Committee of the 5th International Conference on Production Engineering, RIM 2005 (Development and Modernization of Production – Razvoj i modernizacija proizvodnje) Bihać, Bosnia and Herzegovina, 2005.
51. Member of the Program Committee of the 12th International Conference «trans & MOTAUTO '05+», Veliko-Tarnovo, Bulgaria, 2005.
52. Member of the International Program Committee of the 16th International DAAAM Symposium, Opatija, Croatia, 2005.
53. Member of the International Program Committee of the 5th International DAAAM Baltic Conference, Tallinn, Estonia, 2006.
54. Member of the Program Committee of the 13th International Conference «trans & MOTAUTO '06+», Varna, Bulgaria, 2006.
55. Member of the International Advisory Committee of the 5th International Conference on Physical and Numerical Simulations of Materials Processing, Zhengzhou, China, 2007.
56. Member of International Program Committee of 6th International Conference of DAAAM Baltic, Tallinin, Estonia, 2008.
57. Member of the Program Committee of the15-th International Scientific -Technical Conference for Transport, Military transport, Agricultural technics, trans & МОТАUTO’08,   Sozopol,  Bulgaria,  2008.
58. Member of the scientific committee of the 6th    ICCSM (International Congress of Croatian Society of Mechanics, Dubrovnik, Croatia, 2009.
59. Member of the International Program Committee of the16th International Conference trans & МОТАUTO’09,     Bulgaria, 17-19. 09. 2009.
60. Member of International Program Committee of 7th International Conference of DAAAM   Baltic, Tallinin, Estonia, 2010.
61. Member of DAAAM International Program Committee of 21st DAAAM International       World Symposium, Zadar, Croatia, 2010.
62. Vice-chairman of International Program Committee of 6th International Conference on Physical and Numerical Simulations of Materials Processing, Guilin, China, 2010.
63. Member of International Program Committee of 19th International Scientific - Technical Conference trans & Motauto ’11, 2011  , Varna, Bulgaria.
64. Member of Permanent Committee of DAAAM University Network for 2011, Vienna, Austria.
65. Member of 22nd DAAAM International Progam Committee for 2011, Vienna, Austria.
66. Editor-in-Chief of the Engineering Review Journal, publishers: Faculty of Engineering University of Rijeka and Faculty of Civil Engineering University of Rijeka, 2011.-
67. Member of 23rd DAAAM International Progam Committee for 2012, Zadar / Croatia.
68. Member of International Scientific Committee of  The 7th International Conference on
69. Physical and Numerical Simulation of Materials Processing, Oulu, Finland, 2013.
70. Member of International Program Committee of trans & Motauto’14;  23 - 24.06.2014 – Varna – Bulgaria; XXII International scientific and technical conference on transport, road-building, agricultural, hoisting & hauling and military technics and technologies; Organizer : Scientific-technical union of mechanical engineering Bulgaria.
71. Member of the Scientific Board of the Congress of the Croatian Society for Mechanics, Opatija, September 29- October 2, 2015.
72. Member of the International Programme Committee of the 23th International Conference trans&MOTAUTO'15, 24 - 27 June, 2015, Varna, Bulgaria.
73. Member of International Scientific Committee of the 8th International Conference on Physical and Numerical Simulation of Materials Processing (ICPNS), Seattle, USA, October 14-17, 2016.
74. Member of the Technical Committee of International Conference on Materials Engineering and Nano Sciences (ICMENS 2018), (13-15). 01. 2018, Hong Kong.
75. Chairmen of the International Scientific Committee of the 9th ICPNS 2019 (InternationalConference on Physical and Numerical Simulation of Materoals Processing), October 10-15, 2019, Moscow/St Petersburg, Russia.
76. Member of the Program Chair of the 3rd ICMENS 2019 (International Conference on Materials Engineering and Nano Sciences), Hiroshima, Japan, 26-28. 3. 2019.

**1.7. PARTICIPATIONS AND LECTURES AT CONFERENCES**

1. VII Simpozij – Theory and practice of shipbuilding (Teorija i praksa brodogradnje), In memoriam Prof. Leopold Sorta, Pula, May 15.-17., 1986.
2. Counselling- Strength problems of the facilities of marine technology, VI marine technology section, scientific committee for maritime affairs, JAZU, Zagreb, April 14.-15., 1987.
3. International Congress: Pannonian Applied Mathematical and Mechanical Meetings (PAMM):
   * Nowy Sacz, Poland, June 5-8, 1987.
   * Balatonalmadi, Hungary, May 26-29, 1994.
   * Balatonfüred, Hungary, May 4-7, 1995.
   * Budapest - Rome, Hungary - Italy, August 16-26, 1995.
   * Göd - Budapest, Hungary, January 19-21, 1996.
   * Balatonalmadi, Hungary, May 1-5, 1996.
   * Göd, Hungary, October 10-13, 1996.
   * Göd, Hungary, January 23-26, 1997.
   * Balatonalmadi, Hungary, May 8-11, 1997.
   * Göd – Budapest, Hungary, January 22-25, 1998.
   * Balatonalmadi, Hungary, May 7-10, 1998.
   * Göd - Budapest, Hungary, January 1999.
   * Balatonalmadi, Hungary, May 1999.
   * Balatonalmadi, Hungary, May 2002.
   * Göd, Hungary, January 2003.
   * Balatonalmadi, Hungary, May 2003.
   * God, Hungary, September 2004.
   * Balatonalmadi, Hungary, May 2005.
   * Balatonalmadi, Hungary, May 2006.
   * Balatonalmadi, Hungary, May 2007.
4. Seminar: fatigue strength, Fakulty of Electrical Engineering, Mechanical Engineering and Naval Architecture, Split,  April 10.-11., 1990
5. Advanced School: Shape and Layout Optimization of Structural Systems, International Centre for Mechanical Sciences, CISM, Udine, July 16-20, 1990.
6. Advanced School: Nonlinear Analysis of Shells by Finite Elements, International Centre for Mechanical Sciences, CISM, Udine, June 24-29, 1991.
7. 1st Congress of Croatian Society of Mechanics, Pula, September 14-17, 1994.
8. International Conference: Adriatic Coastal Zone and Subsea, Opatija, March 1-4, 1995.
9. National Conference with International Participation, Engineering Mechanics 95, Svratka, Czech Republic, May 15-18, 1995.
10. 5th Internatioanl Symposium on New Technology (5th SONT), Poreč, September 26-28, 1995.
11. 6th International DAAAM Symposium: "Inteligent Manufacturing Systems", Cracow, Poland, October 26-28, 1995.
12. 4th Symposium Design 96, Opatija, May 16-17, 1996.
13. 7th International DAAAM Symposium: "Product & Manufacturing: Flexibility, Integration, Intelligence, Vienna, October 17-19, 1996.
14. International Conference: "Energy and the Environment", Opatija, October 23-25, 1996.
15. International Conference on Industrial Tools, Maribor, Slovenia, April 21-23, 1997.
16. 14th International Symposium on Heating, Cooling and Air Conditioning (Interklima '97), Zagreb, April 24.-25., 1997.
17. International Conference on Recent Advances in Mettalurgical Processes (ICRAMP-97), Bangalore, India, July 16-19, 1997.
18. 3rd Euromech Solid Mechanics Conference, Stockholm, Sweden, August 18-22, 1997.
19. 11th Internaitonal Conference on Engineering Design (ICED 97), Tampere, Finland, August 19-21, 1997.
20. Worldwide ECCE Symposium (European Council of Civil Engineers): "Computers in the Practice of Building and Civil Engineering", Lahti, Finland, September 3-5, 1997.
21. 2nd Congress of Croatian Society of Mechanics, Supetar (Brač), September 18-20, 1997.
22. 3rd International Scientific Colloquium: Computer - Aided Engineering Techniques (CAE Techniques ‘97), Rzeszow, Poland, September 24-27, 1997.
23. Second International Symposium EEDEEQ: Diagnostics of Electrical Machines, Transformers and Devices; electricity quality control, Pula, September 29 - October 1, 1997.
24. Fourth International Scientific - Technical Conference on Internal Combustion Engines and Motor Vehicles - MOTAUTO '97, Russe, Bulgaria, October 15-17, 1997.
25. 4th Interantional Conference on Production Engineering, CIM ’97 (Computer Integrated Manufacturing), Opatija, June 12-13, 1997.
26. 1st International Conference UPS, Mostar, Bosnia and Herzegovina, September 26-27, 1997.
27. 8th International DAAAM Symposium “Intelligent Manufacturing and Automation”, Vienna – Dubrovnik, October 23-25, 1997.
28. 7th International Symposium of Mathematics and its Applications, Timisoara, Romania, November 6-9, 1997.
29. 5th International Design Conference, Dubrovnik, May 19-22, 1998.
30. 5th International Scientific – Technical Conference on Internal Combustion Engines and Motor Vehicles, MOTAUTO ‘98, Sofia, Bulgaria, October 14-16, 1998.
31. 9th DAAAM Symposium: ˝Intelligent Manufacturing, Automation and Networking˝, Vienna – Cluj-Napoca, October 22-24, 1998.
32. 3rd International Conference: New Trends in Automation of Energetic Processes, Zlin, Czech Republic, May 19-20, 1998.
33. 4th International Conference,  FORM’98, Forming Technology, Tools and Machines, Brno, Czech Republic, September 15-16, 1998.
34. VIIth International Conference on Numerical Methods in Continuum Mecahnics (NMCM’98), High Tatras, Slovak Republic, October 6-9, 1998.
35. 3rd International Conference – EEDEEQ ’98 – ˝Maintenance of Electrical Machines, Transformers and Equipment & Electrical Energy Quality˝, Rovinj, October 5-7, 1998.
36. 6th International Scientific Conference: CO-MAT-TECH ’98, Trnava, Slovak Republic, October 22-23, 1998.
37. An International Conference on Advanced Computational Methods in Engineering, ACOMEN’98, Ghent, Belgium, September 2-4, 1998.
38. International Conference: Welding in Maritime Engineering, Malinska (Is. Krk), October 22-24, 1998.
39. International Congress Energy and the Environment, 16th Scientific Conference on Energy and the Environment, Opatija, October 23-25, 1998.
40. 2nd International Conference on Industrial Tools, ICIT '99, Maribor, Slovenia, April 18-22, 1999.
41. 5th International Conference on Advanced Manufacturing Systems and Technology, AMST '99, Udine, Italy, June 3-4, 1999.
42. 4th International Scientific Colloquium, CAx Techniques '99, Bielefeld, Germany, September 13-15, 1999.
43. 10th International DAAAM Symposium "Intelligent Manufacturing & Automation: Past - Present - Future", Vienna, Austria, October 21-23, 1999.
44. 6th International Scientific - Technical Conference on Internal Combustion Engines and Motor Vehicles, Plovdiv, Bulgaria, October 13-15, 1999.
45. The Third International Conference on Physical and Numerical Simulation of Materials and Hot Working, ICPNS '99, Peking, China, October 10-14, 1999.
46. 6th International Design Conference DESIGN 2000, Dubrovnik, May 23-26, 2000.
47. 3rd International Congress of Croatian Society of Mechanics, Cavtat – Dubrovnik, September 28-30, 2000.
48. 5th International Symposium: Diagnostics of electrical machines, transformers and appliances & Power Quality EEDEEQ'2000, Rovinj, 2 to 3 October 2000.
49. 11th International DAAAM Symposium Intelligent Manufacturing & Automation: Man – Machine – Nature, Opatija, October 19-21, 2000.
50. 8th International Scientific Conference CO-MAT-TECH 2000, Trnava, Slovakia, 19-20 October 2000.
51. Eighth International Conference on Civil & Structural Engineering Computing, Eisenstadt-Vienna, Austria, September 19-21, 2001.
52. 12th International DAAAM Symposium Intelligent Manufacturing & Automation: Focus on Precision Engineering, Jena, Germany, October 24-27, 2001.
53. 13th DAAAM Symposium, Vienna, Austria, October 23-26, 2002.
54. Motauto ’02, Russe, Bulgaria, October 29-31, 2002.
55. Workshop, Optimal Design of Materials and Structures, Palaiseau, France, November 25-27, 2002.
56. Sixth International Conference on Computational Structures Technology, Prague, Czech Republic, September 4-6, 2002.
57. Second International Conference on Advanced Computational Methods in Engineering ACOMEN 2002, Liege, Belgium, May 28-31, 2002
58. ICMS 2003, Miskolc, Hungary, April 3-5, 2003.
59. 2nd International Structural Engineering and Construction Conference, ISEC-02, Rome, Italy, September 23-26, 2003.
60. 5th Euromech Solid Mechanics Conference, ESMC 5, Thesssaloniki, Greece, August 17-22, 2003.
61. 4th International Conference on Industrial Tools, ICIT 2003, Maribor, Slovenia, April 08-12, 2003.
62. 4th International Congress of the Croatian Society of Mechanics, Bizovac, Croatia, September 18-20, 2003
63. Workshop, Optimal Design of Materials applications, Timisoara, Romania, November 6-9, 2003.
64. The 10th International Scientific - Technical Conference on Internal Combustion Engines and Motor Vehicles – Motauto ‘03, Sofia, Bulgaria, October 1-2, 2003.
65. The 10th International Symposium of Mathematics and its Applications, Timisoara, Romania, November 6-9, 2003.
66. The 4th International Conference on Physical and Numerical Simulation of Material Processing, Shanghai, China, May 17-21, 2004.
67. 12th International Conference «trans & MOTAUTO '05+», Veliko-Tarnovo, Bulgaria, November 23-25, 2005.
68. 5th International Conference on Physical and Numerical Simulation of Material Processing, Zhengzhou, China, October 23-27, 2007.
69. 6th International DAAAM Baltic Conference, Industrial Engineering, Tallinn, Estonia, April 24-26, 2008.
70. 2nd International Conference on Heat Treatment and Surface Engineering of Tools and   Dies, Bled, Slovenia, May 25-28, 2008.
71. 15th International Scientific -Technical  Conference for Transport, Military transport, Agricultural technics, trans & мотаuto’08,   Sozopol, Bulgaria,  September  18-20,  2008.
72. 7th   Euromech Solid Mechanics Conference (ESMC), Lisbon, September 7-11, 2009, Portugal.
73. 6th International Conference on Physical and Numerical Simulation of Material Processing, Guilin, China, November 16-19, 2010.
74. 21st DAAAM International World Symposium, Zadar, Croatia, December 22-24, 2010.
75. 23rd DAAAM International World Symposium, Zadar, Croatia, December 24-27, 2012.
76. 7th International Conference on Physical and Numerical Simulation of Materials Processing, Oulu, Finland, June 16-19, 2013.
77. 8th International Conference on Advanced Computational Engineering and Experimenting; ACE-X 2014, June 30 – July 3, 2014.
78. 8th International Conference on Physical and Numerical Simulation of Materials    Processing (ICPNS), Seattle, USA, October 14-17, 2016.
79. The 2nd International Conference on Materials Engineering and Nano Sciences /ICMENS 2018/, Hong Kong, January 11- 13, 2018.
80. The 6th Europian Conference on Computational Mechanics (ECCM6), 11-15 June, 2018.
81. The 9th International Conference on Physical and Numerical Simulation of Materials    Processing (ICPNS), Moscow, 10-15 October 2019.
82. The 3rd ICMENS 2019 (International Conference on Materials Engineering and Nano Sciences), Hiroshima, Japan, 26-28. 3. 2019.
83. The 4th ICMENS 2020 (International Conference on Materials Engineering and Nano Sciences), Pattaya, Thailand, 13-15. 3. 2020.
84. The [3rd International Conference on Materials Designs and Applications 2020 (MDA2020](https://web.fe.up.pt/~mda2020/)), 05-06.11.2020, Porto, Portugal

* **CHAIRMAN OF THE SESSIONS OF SCIENTIFIC CONFERENCESS / CONGRESSES / SYMPOSIA**
* DAAAM Symposium: Cracow (Poland), 1995.
* DAAAM Symposium: Vienna (Austria), 1996.
* ICRAMP Conference: Bangalore (India), 1997.
* 3rd Euromech: Stockholm (Sweden), 1997.
* CAE Techniques, Rzeszow (Poland), 1997.
* PAMM (Pannonian Applied Mathematical Meetings): 1994, 1995, 1996, 1997, 1998,             1999, 2002, 2003, 2004, 2005, 2006.
* CAx Technique '99 - International Scientific Colloquium - Bielefeld, Germany, 1999.
* The 10th International Symposium of Mathematics and its Applications, Timisoara, Romania, 2003.
* 4th International Conference on Physical and Numerical Simulation of Material Processing, Shanghai, China, May 17-21, 2004.
* 5th International Conference on Physical and Numerical Simulation of Material Processing, Zhengzhou, China, October 23-27, 2007.
* 6th International DAAAM Baltic Conference, Industrial Engineering, Tallinn,    Estonia, April 24-26, 2008.
* 7th   Euromech Solid Mechanics Conference (ESMC), Lisbon, 2009, Session: GS-EM.3, Portugal.
* 6th International Conference on Physical and Numerical Simulation of Material   Processing, Guilin, China, November 16-19, 2010.
* 8th International Conference on Advanced Computational Engineering and Experimenting; ACE-X 2014, June 30 – July 3, 2014.
* 8th International Conference on Physical and Numerical Simulation   of Materials    Processing (ICPNS), Seattle, USA, Octber 14-17, 2016.
* The 2nd International Conference on Materials Engineering and Nano Sciences /ICMENS 2018/, Hong Kong, January 11- 13, 2018.
* The 9th International Conference on Physical and Numerical Simulation   of Materials    Processing (ICPNS), Moscow / St. Petersburg, October 10-14, 2019.

**1.8. INVITED LECTURES**

1. Brnić, J.: Analysis of Materials of Similar Mechanical Behavior and Similar Industrial Assignment, 9th International Conference on Physical and Numerical Simulation of Materials Processing (9th ICPNS 2019), Moscow, S. Petersburg, 10-14. 10. 2019. (plenary lecture).
2. Brnić, J:. Analysis of Mechanical Behavior of Several Stainless Steels at High Temperatures, Creep and Mechanical Fatigue, 4th ICMENS 2020 (Int Conf on Mater Eng and Nano Sciences), Pattaya, Thailand, March 13-15, 2020.(plenary lecture).
3. Brnić, J:. Behavior of Materials Used in Design of Highly Stressed Engineering Components at Different Temperatures, 3rd ICMENS 2019 (Int Conf on Mater Eng and Nano Sciences), Hiroshima, Japan, March 26-28, 2019.(plenary lecture).
4. Experimental Investigations and Possibilities of Creep Phenomenon Modeling in Metallic Materials, Beijing Institute of Technology, Shenyang University of Technology, Henan Polytechnic University, Shanghai University, May 19-29, 2018.
5. The Significance of Fatigue and Fracture Failures in Engineering Design, Beijing Institute of Technology, Shenyang University of Technology, Henan Polytechnic University, Shanghai University, May 19-29, 2018.
6. Introduction to Finite Elements and Special 2-D Finite Elements in Shearing Stress Analysis, Huazhong University of Science and Technology, Wuhan, September 23-30, 2017.
7. Creep Modeling of Metal Alloys, Huazhong University of Science and Technology, Wuhan, September 23-30, 2017.
8. Something on the Topic of Fracture Mechanics, Huazhong University of Science and Technology, Wuhan, September 23-30, 2017.
9. Properties that Characterize the Material X46Cr13 Steel, 8th ICPNS (International Conference on Physical and Numerical Simulation of Materials Processing), October 14-17, Seattle, USA, October 14-17., 2016. (Plenary Session)
10. Finite Element Analysis of Engineering Elements Subjected to Shear Stresses, School of Materials Science and Technology, Harbin Institute of Technology, January 17-24, 2016.
11. Creep of Metallic Materials, School of Materials Science and Technology,  Harbin Institute of Technology, January 17 -24, 2016.
12. Introduction to Fracture Mechanics, School of Materials Science and Technology,  Harbin Institute of Technology, January 17 -24, 2016.
13. Brnić, J., et al.: Comparison of Material Properties and Creep Behavior of 20MnCr5 and S275JR Steels, 7th ICPNS, Oulu, Finland (Key Lecture), 2013.
14. Brnić, J.: Analysis of Structure Made of X39CrMo17-1 Steel, Harbin Institute of Technology, School of Materials Science and Engineering, June 21, 2012, Harbin.
15. Brnić, J.: Crack Driving Force Assessment /Calculation – Pressure Vessel Steels, Harbin Institute of Technology, School of Materials Science and Engineering, June 21, 2012, Harbin.
16. Brnić, J.: X17CrNi16-2 Martensitic Stainless Steel – Temperature Dependency of Material Properties, Short - Time Creep Behavior and Fracture Toughness Assessment, The 6th International Conference on Physical and Numerical Simulation of Materials Processing (ICPNS 2010), November16-19, Guilin, China, 2010.
17. Brnić, J.: Structural steels S 355JO and 50CrMo4: comparison of their mechanical    properties, creep behavior and fracture toughness, International Conference on Innovative Technologies, In- Tech 2010, Brno, Czech Republic, 612-615, September 2010.
18. Brnić, J.: Creep experimental investigation and numerical structural analysis, DAAAM Baltic conference, Estonia, tallinn, April 23-27, 2008.( Plenary Lecture)
19. Brnić, J., An overview of finite element structural analysis, University of Tai-Yuan, Taiyuan, China,  April, 2008.
20. Brnić, J., Application of plate finite elements, Harbin institute of Technology, Harbin, China, April 2008.
21. Brnić, J., Turkalj, G., Čanađija, M., Lanc, D.: Behavior of high strength low-alloy(HSLA)steel at elevated temperatures, Proceedings of The Fifth International Conference on Physical and Numerical Simulation of Material Processing, Zhengzhou : The Chinese Mechanical Engineering Society, 23.-27. October 2007 (Plenary Lecture).
22. Brnić, J.: Applications of finite elements, Harbin Institute of Technology, Harbin, China, September 2006.
23. Brnić, J.: Types of finite elements, Harbin Institute of Technology, Harbin, China, September 2006.
24. Brnić, J.: Determination of finite element equation, Harbin Institute of Technology, Harbin, China, September 2006.
25. Brnić, J.: Structural analysis using finite element method, Harbin Institute of Technology, Harbin, China, September 2006.
26. Brnić, J., Turkalj, G.: New finite elements in shear stress analysis of Saint – Venant’s torsional loaded beam structures, The 4th International Conference on Physical and Numerical Simulation of Material Processing, ICPNS 2004, Shanghai, China, 2004.
27. Brnić, J., Turkalj, G., Čanađija, M.: Application of finite element structural optimization in naval architecture, The 10th International Symposium of Mathematics and its Applications, Timisoara, Romania, November 6-9, 2003.
28. Brnić, J., Turkalj, G., Čanađija, M.: Optimal design procedure based on the viscoplastic material behaviour, The Third International Conference on Physical and Numerical Simulation of Materials and Hot Working, ICPNS '99, Beijing, China, 1999.
29. Brnić, J.: Finite Element non-linear analysis of a special rolling problem, Pannonian Applied Mathematical Meetings, Göd/Budapest, 1998.
30. Brnić, J., Turkalj, G.: Finite element formulation of flattening process as a plane-strain problem, Balatonalmadi, Hungary, 1998.
31. Brnić, J.: Finite element nonlinear analysis of a special rolling problem, Pannonian Applied Mathematical Meeting, Göd/Budapest, Hungary, 1998.
32. Brnić, J.: Finite element modelling of creep phenomenon of different materials, (invited lecture), International Conference on Recent Advances in Metallurgical Processes (ICRAMP ’97), Bangalore, India, 1997.
33. Brnić, J.: Mechanical sublayer method in creep and relaxation phenomena numerical modelling, Pannonian Applied Mathematical Meeting, Göd/Budapest, Hungary, 1996.
34. Brnić, J.: Structural optimization via plastic design criteria, Pannonian Applied Mathematical Meeting, Göd/Budapest, Hungary, 1996.
35. Brnić, J.: Theory of viscoplasticity - Fundamentals and Numerical Solutions, Pannonian Applied Mathematical Meeting, Göd/Budapest, Hungary, 1996.
36. Brnić, J.: Analitička i numerička rješenja u području elasto-viskopalstičnosti, Strojarski fakultet, Slavonski Brod, 1996.
37. Brnić, J.: Razvoj novih konačnih elemenata za analizu posmičnih naprezanja, Strojarski fakultet, Slavonski Brod, 1996.
38. Brnić, J.: Finite Element Analysis of Saint-Venant's Torsion Problem, Faculty of Mechanical Engineering, Brno, Czech Republic, 1995.

**1.9. RESEARCH PROJECTS**

* 2019-2024 Collaborator on the scientific project of HRZZ (CSF), Croatian Science Foundation: “Estimation of the carrying capacity of engineering structures” , Leader, prof. D. Lanc.
* 2018-2021 Leader of the scientific project (UNIRI support), ”Investigation, analysis and modeling the behavior of structural elements stressed at room temperature and high temperatures”.
* 2018-2021 Collaborator on the scientific project (UNIRI support), Leader: Prof. Vukelić Goran (“Analysis of the failures of materils in sea environmental conditions”).
* 2014-2018  Head – University project (UNIRI) „Numerical analysis of the constructional response and investigations of material properties“.
* 2014-2018   Leader of the research project „Assessment of structural behaviour in limit state operating conditions “HRZZ (Croatia Science Foundation - HRVATSKA ZAKLADA ZA ZNANOST). Collaborators on the project: professors: G. Turkalj, M. Čanađija, D. Lanc,  assistant professors: M. Brčić, G. Vukelić, I. Pešić, S. Kršćanski, assistants: N. Munjas, E. Merdanović, D. Banić (from 1.3.2015), S. Kvaternik (from 2016).
* 2016-2018 Leader of the research project (UNIRI support) “Numerical analysis of structural responses and experimental investigations of material properties” (Numerička analiza odziva konstrukcija I eksperimentalna istraživanja svojstava materijala).
* 2014-2015 Leader of the bilateral research project (Croatia – China): „Material properties, creep behavior, fracture toughness and microstructure of metal alloys – experimental analysis and numerical simulations“. Collaborators: G. Turkalj, M. Canadija, D. Lanc, M. Brcic. Leader of the project from China side: Prof. Jitai Niu (School of Material Science and Engineering, Jiaozuo, Henan Polytechnic University, Cina).
* 2014-2015 Leader of the bilateral research project (Croatia – Austria): „Influence of Heat Affected Zone of electron beam welded steel casting GX4CrNi13-4 on the fatigue strength”. Collaborators: professors: G. Turkalj, M. Canadija, D. Lanc, M. Brcic, assistant professors: S. Krscanski, I. Pesic, assistants: E. Merdanovic, N. Munjas. Leader of the project from Austria side: Dr. Rudolf Vallant (Institute for Materials Science and Welding (IWS), Graz University of Technology)).
* 2012- 2013 Leader of the bilateral research project (Croatia – Slovenia): „Analysis of conditions for control of metal forming processes”, Croatia-Slovenia. Collaborators: M. Canadija, M. Brcic, G. Vukelic, M. Krsulja. Leader of the project from Slovenian side: Prof. Karl Kuzman, Ph. D. / Prof. Tomaž Pepelnjak, Ph.D.
* 2009-2011 Leader of the research bilateral project (Croatia – China): „Metal alloys behavior at different environmental conditions-testing and numerical simulations“. Collaborators: M. Čanađija, G. Turkalj, D. Lanc. Leader of the project from China side: Prof. Jitai Niu, Ph.D. (School of Material Science and Engineering, Jiaozuo, Henan Polytechnic University, Cina). Collaborators: Prof.  Sijie CHEN, Ph.D, Prof.Qiang LI, Ph.D, and Associate Prof. Dongxia XU, Ph.D.
* 2007-2013   Leader of the scientific (research) program: „ Analysis of the response of structures and machines with the aim of more efficient design solution “, Ministry of Science and Technology of the Republic of Croatia.
* 2007- 2013   Principal researcher of the scientific-research project: "Numerical analysis of structural responses for certain areas of exploitation ", br. 069-0691736-1737, Ministry of Science and Technology of the Republic of Croatia.
* 2007- 2013    Research team member of the scientific-research project:“ Finite element models for stability analysis of beam- type structures”, Nr. 069-0691736-1731, Leader: Prof. dr. sc. G. Turkalj.
* 2002-2007 Principal researcher of the scientific-research project: „Numerical analysis of nonlinear problems in design and production ", Nr. 0069-006, Ministry of Science and Technology of the Republic of Croatia.
* 1996-2001  A member of the research team of the scientific research project "Vibration of turbine blades with high static stresses", Nr. 2-06-049, (Principal Investigator: Professor M. Butković, PhD), Ministry of Science and Technology of the Republic of Croatia.1991-
* 1991-1996    Principal researcher of the scientific research project: "Structural analysis of objects for optimum usability ", Nr. 2-08-011, Ministry of Science and Technology of the Republic of Croatia.
* 1989    Head of Research Team on the Study: "Numerical analysis of shear stresses in transverse sections of the hull structure of fiberglass ", Brodarski institut - Brodoprojekt.
* 1988/89    A member of the research team on the project "Budget and Design of the Tourist Submarine"Brodoprojekt.
* 1987    Project Team Leader: "Structural analysis and design of new entry and exit systems for special underwater facilities ", Brodoprojekt.
* 1986    Head of Research Team on the Study: "Numerical Analysis and Optimization of Construction of Substructures of Underwater Objects for High Pressures ", Brodoprojekt.
* 1985-1990    A member of the research team of the Faculty of Engineering on a scientific research project: "Optimization of bearing thin structures ", br. 1.04.12.01.21, SIZ za znanost R.Hrvatske.
* 1985    Project Team Leader: "Dynamic Model of Underwater Observation Movement", Brodoprojekt "- Ministry of Defense.

**1.10. PUBLISHED BOOKS**

 See “List of publications”.

**1.11. PUBLISHED CHAPTERS IN BOOKS**

 See “List of publications”.

**1.12. AWARDS**

1. **The State Award for Science- Lifetime Achievement Award (2019)**, Republic of Croatia, Ministry of Science and Education, for 2018 year, in the field of technical sciences.
2. Acknowledgment for achievements in 2017. year that contributed to the promotion, progress and reputation of the University of Rijeka (Rector, Prof. Snježana Prijić-Samaržija, Ph. D.).
3. Memorial plaque as recognition and gratitude for the contribution in the development and operation of the University of Rijeka, from its founding to the present, 2013 (Rector, prof. Pero Lucin, Ph. D.)
4. Lifetime Achievement Award of the Foundation of the University of Rijeka (2012.) for the academic year 2010-2011.
5. Award of the Croatian Academy of Sciences and Arts for the highest scientific achievements in 2010 for Engineering Sciences.
6. 2nd Prize – Zwick Science Award 2009, Ulm, Germany.
7. Annual Award of University Rijeka Foundation for research in the field of technical sciences in 2004.
8. Jubilee plaque for the year 1999 - recognition for a special contribution to the work and development of the Croatian Association of Mechanical Engineering, for the benefit of the scientific and economic development of the Republic of Croatia.
9. Acknowledgment for the contribution in modernization of Faculty of Mechanical Engineering in Slavonski Brod, June 1999.
10. Special Award of ÖIAV (Österreichischer Ingenieur und Architekten Verein) and DAAAM International for Significant Contribution in the Field of Engineering, Excellence in Science, and International Academic and Scientific Cooperation in Middle European Region Within the Framework of the Danube Adria Association for Automation & Manufacturing and Austrian Society of Engineers and Architects, Vienna & Cluj-Napoca, October 22, 1998.
11. The State Science Award – Annual Award, awarded by the Republic of Croatia for significant scientific achievements in the field of technical sciences in 1997.
12. Certificate, Awarded to Prof. Josip Brnić, D.Sc., DAAAM International, Vienna, October 17-19, 1996.
13. Award of the President of the Republic of Croatia Dr. Franjo Tudjman: Red Danica hrvatska with the image of Ruđer Bošković, for the special contribution of science, 1995
14. Award of the City of Rijeka for the work and creativity for the peiod of 1992-1993, 1994.

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**1.13. KNOWING OF FOREIGN LANUAGES**

Active in English, passive in German and Slovenian.

**1.14. INTRODUCTION OF NEW SUBJECTS AND COURSES OF STUDIES**

During the development of new curricula of postgraduate scientific studies and university graduate studies in mechanical engineering and shipbuilding 1994/95 and 1998 and 2004, he introduced new subjects, developed the contents of these subjects and he is leader of the following subjects:

•    Postgraduate scientific study

1. Elastomechanics and plastomechanics
2. Viscoelasticity and viscoplasticity
3. Structural optimization
4. Finite Element Method of Solid Bodies
5. Computer Modeling of Plastic Metal Shaping

•    University graduate study

1. Elastomechanics and plastomechanics
2. Finite Element Method of Solid Bodies
3. Experiental Methods in Mechanics

●● He is one of the initiators for the introduction of a university undergraduate study in electrical engineering at the Faculty of Engineering, University of Rijeka. As the Dean of the Faculty he led the Commission for the curriculum development of this study and participated in its work.  
•    For university graduate study he introduced the following subjects

1. Mechanics and structural elements
2. Structural analysis (elective)

●● He is one of the initiators for the introduction new courses on the university graduate study:

1. Computer Engineering (ME+NA)
2. Electro-mechanical Engineering
3. Engines and Motor Vehicles (CrA)
4. Armor and Artillery (CrA)

**1.15. ESTABLISHMENT OF SCIENTIFIC-RESEARCH LABORATORIES**

He is initiator of the founding of several research laboratories and procurement of research equipment. He is the head of the Laboratory for structural strength testing (mechanical material properties, creep behavior, fatigue testing, etc.)

**1.16 REVIEWS OF THE SCIENTIFIC PAPERS**  
                           **He is reviewer of:**

**A. Papers published in journals indexed in Current Contents-u (CC):**

* Journal of Testing and Evaluation;
* Finite Element in Analysis and Design (FINEL);
* Materials and Design;
* Journal of Engineering Materials and Technology;
* Metallurgical and Materials Transactions A (MMTA);
* Bulletin of Materials Science;
* Journal of Constructional Steel Research;
* High Temperature Materials and Processes;
* Materials Science and Engineering B;
* Journal of Structural Engineering;
* Materials Science and Engineering A;
* Engineering Structures;
* Nuclear Engineering and Design;
* Materials and Structures;
* Journal of Mateials Engineering and Performance
* Steeland Composite Structures
* TRANSACTION OF FAMENA (SCI)
* Strojniški vestnik- Journal of Mechanical Engineering (SCIEx)
* TEHNIČKI VJESNIK - TECHNICAL GAZETTE (SCIEx)
* Mechanics of Time-Dependent Materials
* Steel Research International
* Theoretical and Applied Fracture Mechanics
* Materials
* Metals
* International Journal of Fatigue
* Materials Transactions
* International Journal of Rock Mecanics and Mining Sciences
* Advances in Computational Design (ESCI)
* Thin- Walled Structures
* Machines (ESCI)
* Vacum
* Engineering Fracture Mechanics
* Composite Structures
* Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering.
* International Journal of Pressure Vessels and Piping.

**B. Papers published in conference proceedings**

* DAAAM Estonia,
* ICPNS China
* International Conference on Industrial Tools (ICIT), Slovenia

**C. Books (original language)**

1. B. Štok: "Mehanika deformabilnih tijela", Školska knjiga, Zagreb, 1993.
2. M. Krpan, A. Franulović: "Dinamika - teorija i primjena", Tehnički fakultet, 2001.
3. Z. Sapunar: "Kinematika", Tehnički fakultet, 1993.
4. Ž. Lozina: "Mehanika", Fakultet elektrotehnike, strojarstva i brodogradnje (FESB), Split, 1996.
5. Ž. Lozina: "Uvod u metodu konačnih elemenata", Fakultet elektrotehnike, strojarstva i brodogradnje (FESB), Split, 1996.
6. I. Alfirević: "Viša nauka o čvrstoći", FSB-Zagreb, 1997.
7. Nikolae Boja & G. Brailoiu: Monographical Booklet: “Geometric Introduction to the Contiuum Deformation Analysis” University of Timisoara – Rumunjska, 1997.
8. I. Alfirević: Nauka o čvrstoći I, FSB- Zagreb, 1999.
9. I. Alfirević: “Elastična analiza konstrukcija”, FSB – Zagreb, 1997.
10. I. Alfirević: "Nauka o čvrstoći II", FSB, Zagreb, 1998.
11. F. Matejičeka i dr.: "Uvod u statiku", Biblioteka Tehnička mehanika, Sveučilište u Zagrebu i Osijeku, Osijek, 1999.
12. I. Alfirević: “Linearna analiza konstrukcija”, Sveučilište u Zagrebu, Fakultet strojarstva i brodogradnje, Zagreb, 1999.
13. D. Šimić: “Teorija tankostjenih nosača otvorenog poprečnog presjeka”, Sveučilište u Zagrebu, Građevinski fakultet, Zagreb, 2008.
14. R. Žigulić i Sanjin Braut: “Kinematika“, Tehnički fakultet u Rijeci, 2012.

**D. Book Chapters (original language)**

Chapters in book: Inženjerski priručnik 1, Školska knjiga, Zagreb, 1996.

1. Alfirević, I.: Nauka o čvrstoći, poglavlje 7.8.
2. Alfirević, I., Muftić, O.: Statika krutih tijela, poglavlje 7.1.
3. Alfirević, I.: Analitička mehanika, poglavlje 7.4.

He also has reviewed the papers for Proceedings of Faculty of Engineering Rijeka, Slavonski Brod, etc.

**E.** Research projects of Ministry of science and technology of Republic of Croatia.

**1.17. MENTORSHIPS**

He was a mentor for doctoral thesis, president or member of the committee for the defense of the dissertation, master thesis or diploma thesis

* Mentor for doctoral thesis: Siminiati Dubravka, Turkalj Goran, Čanađija Marko, Vukelić Goran, Sanjin Kršćanski.
* Mentor for master thesis: Turkalj G., Čanađija M., Perinić M., Lanc D.
* President or member of the committee for the defense of the dissertation (or master thesis)
* President / member of the committee for evaluation of eligibility of the candidate and disertation topics
* Mentor for diploma thesis
* President or member of the committee for election of candidates to scientific-teaching, or other titles.

* **LIST OF PUBLICATIONS**
* Top of Form
* ***Master’s Thesis***

Brnic, J.: Vibration analysis of planar structures by computer, Faculty of Mechanical Engineering, Ljubljana, Slovenia, 1983, (in Croatian)

* ***Doctoral Thesis***

Brnic, J.: Analysis of stress of cross-section statically loaded beam elements, Faculty of Engineering, University of Rijeka, Rijeka 1988. (in Croatian)

* **Books**

1. (2018) Brnić, J.: Analysis of Engineering Structures and Material Behavior, John Wiley & Sons, Chichester, UK; Hoboken, NJ, USA, 496 pages.
2. (2013) Brnić, J.: Fundamentals of optimization of mechanical structures, Faculty of Engineering, Rijeka, 211 pages. (In Croatian).
3. (2009) Brnić, J., Čanađija, M.: Analysis of deformable bodies using finite element method, Fintrade & Tours, d.o.o., Rijeka, (Copublisher: Faculty of Engineering Rijeka), 474+XX pages. (in Croatian)
4. (2006) Čanađija, M., Brnić, J., Finite strain thermoplasticity: constitutive theory and numerical implementation, Monographical booklets (Applied & Computer Mathematics), Interuniversity Network, Budapest, 118 pages.
5. (2006) Brnić, J., Turkalj, G.: Strength of Materials II, Zigo, Rijeka, 2006., 700 pages (in Croatian)
6. (2004) Brnić, J., Turkalj, G.: Strength of Materials I, Faculty of Engineering University of Rijeka, Rijeka, 2004, 545 pages.(in Croatian).
7. (2004) Brnić, J.: Statics , Faculty of Engineering University of Rijeka, Rijeka, 2004., 325 pages.(in Croatian)
8. (1998) Brnić, J.: Elastoplasticity and Elastoviscoplasticity, Monographical booklets (Applied & Computer Mathematics), PAMM Center, Budapest, 167 pages.
9. (1996) Brnić, J.: Elastomechanics and Plastomechanics, Školska knjiga, Zagreb, 1996., 323 pages.(in Croatian)
10. (1993) Brnić, J.: Brnić, J.: Mechanics and Engineering Elements, Školska knjiga, Zagreb, 1993., 543 pages.(in Croatian)
11. (1991) Brnić, J.: Strength of Materials, Školska knjiga, Zagreb, 1991., 320 pages.(in Croatian)

* **Book Chapters**

1. Alfirević, I., Brnić, J.: Teorija viskoelastičnosti, poglavlje 7.11 u knjizi “Inženjerski priručnik I”, Školska knjiga, Zagreb, 1996.
2. Brnić, J., Čanađija, M.: Comparison of measured and computed contact pressure distribution in cold sheet rolling process, u AMST ’99, ed. Elso Kuljanić, Springer Verlag, Wien, 1999.
3. Brnic, J., Canadija, M., Turkalj, G.: Finite elastoplasticity in plane strain cold rolling problem, in Kuljanic, E. (ed.): Advanced Manufacturing Systems and Technology, CISM Courses and Lectures No. 437, Springer-Verlag, Wien – New York, 2002.
4. Turkalj, G., Brnic, J.: Nonlinear finite element stability analysis of elastic thin-walled framed structures, in Katalinic, B. (ed.): DAAAM International Scientific Book 2002, DAAAM International, Vienna, 2002.
5. Čanađija, M., Brnić, J.: A contribution to optimisation in thermomechanics. Shape and layout problems, in Katalinic, B. (ed.): DAAAM International Scientific Book 2003, DAAAM International, Vienna, 2003.
6. Turkalj, G., Brnić, J., Lanc, D.: Non-linear formulation for elastic stability analysis of thin-walled beam-type structures, in Jarmani, K. & Farkas, J. (eds.) Metal Structures: Design, Fabrication, Economy, Millpress, Rotterdam, 2003.
7. Turkalj, G., Brnić, J., Lanc, D.: Elasto-plastic large displacement analysis of thin-   walled     beam-type structures, in Bontempi, F. (ed): System-based Vision for Strategic and Creative Design, A.A. Balkema Publishers, Lisse, 2003.
8. Brnić, J.; Vukelić, G.; Kršćanski, S.: Comparison of Some Structural and Stainless Steels Based on the Mechanical Properties and Resistance to Creep, Mechanical and Materials Engineering of Modern Structure and Component / Dr Andreas Oechsner (ur.), Berlin : <http://www.springer.com/series/8611>, 2015. Str. 189-196.

* **Papers published in journals indexed in:**
* **CURRENT CONTENTS**

1. Brnić, J, Brčić, M., Kršćanski, S., Niu, J., Chen, S., Gao, Z.: Deformation Behavior of C15E+C Steel under Different Uniaxial Stress Tests**, Metals**, 10 (2020), 11, 1445, 19, doi:10.3390/met10111445.
2. Kršćanski, S., Brnić, J.: [Prediction of Fatigue Crack Growth in Metallic Specimens under Constant Amplitude Loading Using Virtual Crack Closure and Forman Model](https://www.mdpi.com/2075-4701/10/7/977)**, Metals**, 10 (2020), 7, 977, 14, doi:10.3390/met10070977.
3. Gao, Z.,Ba, X., Yang, H., Yin, C., Liu, S., Niu, J., Brnić, J.: [Joining of Silicon Particle-Reinforced Aluminum Matrix Composites to Kovar Alloys Using Active Melt-Spun Ribbons in Vacuum Conditions](https://www.bib.irb.hr/1069738)**, Materials**, 13 (2020), 13; 2965, 16, doi:10.3390/ma13132965.
4. Gao, Z., Yang, H., Feng, J., Ji, F., Niu, J., Brnić, J.: Flux-Free Diffusion Joining of SiCp/6063 Al Matrix Composites Using Liquid Gallium with Nano-Copper Particles in Atmosphere Environment, **Nanomaterials,** 10 (2020), 3, 437-449.
5. Brnić, J., Kršćanski, S., Brčić, M., Geng, L., Niu, J., Ding, B.:Reliable experimental data as a key factor for design of mechanical structures, **Structural Engineering and Mechanics**, 72 (2019), 2, 245 – 256.
6. Brnić, J., Brčić. M., Kršćanski, S., Lanc, D., Chen, S.: Uniaxial fatigue, creep ans stress-strain responses of steel 30CrNiMo8, **Steel and Composite Structures, 31** (2019), 4, 409-416.
7. Čanađija, M., Munjas, N., Brnić, J.: Thermodynamically consistent homogenization in finite strain thermoplasticity, **International Journal for Multiscale Computational Engineering,** 17 (2019), 2, 99–120.
8. Brnić, J., Brčić, M., Kršćanski, S., Lanc, D., Niu, J., Wang, P.: Steel 51CrV4 under high temperatures, short- time creep and high cycle fatigue, **Journal of Constructional Steel Research**, 147 (2018); 468-476.
9. Turkalj, G., Lanc, D., Banić, D., Brnić, J., Vo, Thuc P.: A shear-deformable beam model for stability analysis of orthotropic composite semi-rigid frames, **Composite structures**, 189 (2018); 648-660.
10. Munjas, N., Čanađija, M., Brnić, J.: [Thermo-Mechanical Multiscale Modeling in Plasticity of Metals Using Small Strain Theory](http://beta.bib.irb.hr/871754), **Journal of mechanics,** 34 (2018), 5, 579-589.
11. Brnić, J., Kršćanski, S., Lanc, D., Brčić, M., Turkalj, G., Čanađija, M., Niu, J.: Analysis of the Mechanical Behavior, Creep Resistance and Uniaxial Fatigue Strength of Martensitic Steel X46Cr13, **Materials**, 10 (2017), 4, 388-406.
12. Brnic, J, Turkalj, G., Krscanski, S., Vukelic, G., Canadija, M.: Uniaxial Properties versus Temperature, Creep and Impact Energy of an Austentic Steel, **High Temperature Materials and Processes**, 36 (2017), 2, 135-143.
13. Torić, N., Brnić, J., Boko, I., Brčić, M.,   Burgess, I. W., Uzelac- Glavinić, I.; Development of a high temperature material model for grade S275JR steel, **Journal of Constructional Steel Research** 137 (2017), 161–168.
14. Vukelić, G., Brnić, J.: Numerical Prediction of Fracture Behavior for Austenitic and Martensitic Stainless Steels, **International Journal of Applied Mechanics** 9 (2017), 4, 1750052 (11 pages).
15. Čanađija, M., Brčić, M., Brnić, J.: Elastic properties of nanocomposite materials: influence of carbon nanotube imperfections and interface bonding, **Meccanica**, 52 (2017), 7, 1655-1668.
16. Torić, N., Brnić, J., Boko, I., Brčić, M., Burgess, Ian W.; Uzelac, I.: Experimental Analysis of the Behaviour of Aluminium Alloy EN6082 AW T6 at High Temperature, **Metals**, 7 (2017), 4, 1-15.
17. Brnić, J; Čanađija, M.; Turkalj, G.; Kršćanski, S.; Lanc, D.; Brčić, M. Zeng, G.: Short-Time Creep, Fatigue and Mechanical Properties of 42CrMo4-Low Alloy Structural Steel, **Steel and Composite Structures**, 22 (2016), 4, 875-888.
18. Lanc, D., Turkalj, G., Vo, T. P., Brnić, J.: Nonlinear buckling behaviours of thin-walled functionally graded open section beams, **Composite Structures**, 152 (2016), 829-839.
19. Brnić, J., Turkalj, G., Čanađija, M., Lanc, D., Kršćanski, S., Brčić, M., Li, Q., Niu, J.:  Mechanical Properties, Short Time Creep and Fatigue of an Austenitic Steel, **Materials**, 9 (2016), 4, 298-1-298-19.
20. Vukelić, G., Brnić, J.: Predicted Fracture Behavior of Shaft Steels with Improved Corrosion Resistance, **Metals**, 6 (2016), 2, 40-1-40-9.
21. Gao, Z., Chen, Z.R., Wu, Y. H., Niu, J., Brnić, J.: Structure and properties of welded joint of high-strength wear-resistant steel NM360, **Materials Science and Technology**, 32 (2016), 4, 299.302.
22. Vukelić, G., Brnić, J.: [Analysis of Austenitic Stainless Steels (AISI 303 and AISI 316Ti) Regarding Crack Driving Forces and Creep Responses](http://bib.irb.hr/prikazi-rad?&rad=738080), **Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications**, 230 (2016), 3, 699-704.
23. Brnić, J., Turkalj, G., Krscanski, S., Niu, J., Li, Q.: Changes in the Material Properties of Steel 1.4762 Depending on the Temperature, **High Temperature Materials and Processes**, 35 (2016), 8, 761-767.
24. Brnic J.,  Turkalj G.,  Canadija M.,   Krscanski S.,  Brcic M.,  Lanc D.,  .: Deformation Behavior and Material Properties of Austenitic Heat - Resistant Steel X15CrNiSi25-20 Subjected to High Temperatures and Creep, **Materials and Design**, 69 (2015), 219-229, DOI: 10.1016/j.matdes.2014.12.062.
25. Brnic J., Turkalj G., Canadija M., Lanc D., Brcic M.: Study of the Effects of High Temperatures on the Engineering Properties of Steel 42CrMo4, **High Temperature Materials and Processes**, 34 (2015), 1, 27-34. DOI: [10.1515/htmp-2014-0011](https://www.degruyter.com/view/j/htmp.2015.34.issue-1/htmp-2014-0011/htmp-2014-0011.xml).
26. Vukelic G., Brnic J.: Prediction of Fracture Behavior of 20MnCr5 and S275JR Steel Based on Numerical Crack Driving Force Assessment, **Journal of Materials in Civil Engineering**, 27 (2015), 3, 04014132-1 - 04014132-5 DOI: [10.1061/(ASCE)MT.1943-5533.0001071](http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29MT.1943-5533.0001071).
27. Turkalj, G., Lanc, D., Brnić, J., Pešić, I.: [A beam formulation for large displacement analysis of composite frames with semi-rigid connections](http://bib.irb.hr/prikazi-rad?&rad=774692), **Composite Structures** 134 (2015), 237-246.
28. Brnic J.,  Turkalj G.,  Krscanski S.,  Lanc D.,  Canadija M.,   Brcic M.: Information relevant for the design of structure -  ferritic-heat resistant high chromium steel X10CrAlSi25, **Materials & Design**, 63 (2014), 508-518, DOI:[10.1016/j.matdes.2014.06.051](https://www.infona.pl/resource/bwmeta1.element.elsevier-a155f167-bba8-379f-936c-7c05b2c54cc1).
29. Brnic J., Turkalj G., Canadija M.: Mechanical Testing of the Behavior of Steel 1.7147 at Different Temperatures, **Steel and Composite Structures**, 17 (2014), 5, 549-560.
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35. Brnić, J., Turkalj, G., Kršćanski S.: [Experimental Research and Analysis of Non-alloy Structural Steel Response Exposed to High Temperature Conditions](https://www.degruyter.com/view/j/htmp.2013.32.issue-2/htmp-2012-0108/htmp-2012-0108.xml), **High Temperature Materials and Processes**, 32 (2013), 2, 163-169.
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39. Niu, J., Luo, X., Tian, H., Brnić, J.: Vacum brazing of aluminium metal matrix composite (55 vol.%SiCp/A356) using aluminium –based filter alloy, **Materials Science and Engineering:B** , 177 (2012) , 19, 1707-1711 .
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41. Brnić, J., Turkalj, G., Čanađija, M., Lanc, D.: [AISI 316Ti (1.4571) Steel – Mechanical, Creep and Fracture Properties versus Temperature](http://bib.irb.hr/prikazi-rad?&rad=517088), **Journal of Constructional Steel Research**, 67 (2011), 12, 1948-1952.
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43. Vukelić, G.; Brnić, J.: [Pressure Vessel Steels Crack Driving Force Assessment Using Different Models](http://bib.irb.hr/prikazi-rad?&rad=528456), **Journal of Constructional Steel Research**, 72 (2012), 29 – 34.
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46. Brnić, J., Čanađija, M., Turkalj, G., Lanc, D., Brčić, M., Vukelić, G.: Effect of Elevated Temperatures on Behavior of Structural Steel 50CrMo4, **High Temperature Materials and Processes**, 30 (2011), 1-2, 121-125.
47. Brnić, J., Čanađija, M., Turkalj, G., Lanc, D.: Structural Steel ASTM A709-Behavior at Uniaxial Tests Conducted at Lowered and Elevated Temperatures, Short-Time Creep Response and Fracture Toughness Calculation, **Journal of Engineering Mechanics**, 136 (2010), 9, 1083-1089.
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