

Investigation of boundary conditions for fusion plasmas and their implementation in existing and future simulation codes

Short title: Boundary Conditions for Fusion Plasmas

**Proposal for a Contract for Shared-Cost Action
within the Euratom Key Action Fusion**

submitted by

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in collaboration with

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Note: This application concerns only the financial support for the Slovenian partner in this project

PART B: APPENDICES

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1 Adresses and affiliations

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1.2 Collaborators

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2 Bibliographies

2.1 Prof. Dr. Jože Duhovnik

2.1.1 Curriculum vitae

Jože Duhovnik was born on 03-23-1948 in Količevo near Medvode, attended primary school in Preska near Medvode, and secondary technical school for mechanical technicians in Ljubljana, ending it in 1966 with distinction. In autumn 1966 he enrolled in the university course at the Faculty of Mechanical Engineering, receiving the degree in January 1971 with distinction.

History of Professional and Scientific Achievements

1964 - 1968 Machine designer in COLOR Medvode
1969 - 1971 Designer and Planner in Design Bureau Velenje
1971 - 1971 Head of Design Team in SAVA Kranj
1971 appointed Assistant at the Faculty of mechanical Engineering, University of Ljubljana
1972 - 1978 worked as assistant at the Faculty of Mechanical Engineering
1974 received Master Science degree at the Faculty of mechanical Engineering
1974 - 1974 army service
1978 - 1980 Director of Design Bureau in Mechanical Workshops SCT (Slovenian Road Construction Company)
1980 received Doctor Science degree at the Faculty of Mechanical Engineering
1980 - appointed Assistant Professor of Machine Design at the Faculty of Mechanical Engineering
1982 - 1983 postdoctoral specialization at the University of Tokyo
1983 founded and became Head of LECAD Laboratory
1991 appointed Associate Professor of Machine Design
1991 - 1996 Chief Executive of LITOSTROJ Corporation
1994 senior director of international company Dr.DUHOVNIK d.o.o.
1996 professor on the Faculty for Mechanical Engineering in Ljubljana
1998 visiting professor on the Sarajevo university – Zenica
2001 chair of department for Design and development at Faculty for ME, UL
2001 professor in the EGPR course in virtual class room Delft-Ljubljana-Lausanne

Scientific and pedagogical work at universities abroad:

1982 - 1983 Department of Precision Machinery, University of Tokyo
postdoctoral specialization
1995 University of Illinois, USA, received invitation for a visit
1997 Faculty of ME, MIT, Boston, received invitation for a visit
1997 visiting professor at the University of Sarajevo, Faculty of Mechanical Engineering, World University

Membership in important international organizations:

VDI	since 1980
EUROGRAPHICS	since 1983
WDK	since 1994
New York Academy of Sciences	since 1997
Design Society	since 2001

Membership in important national bodies:

From 1992 - 1996 Member of The Council for Higher Education of the Government.

From 1992 - 1997	Member of Supervision Board of the Development Fund
From 1991 - 1999	Vice-President and Member of the Supervision Board of Slovenian Railway
Since 1993-2000	Member of Council for Science (second term). (Slovenian Government)
Since 1996	coordinator for the field of Design appointed by the Ministry of Science and Technology
Since 2000	Member of Council for Technology and Science (Slovenian Government)

Survey of the past research works

Analysis of the actual geometry of gear flanks in mesh and its influence on defining deviations, 1974; Method for the determination of tangential tolerance and corresponding deviations, 1975; Power transmission between gears subjected to small loads, 1978; Dynamic forces on tooth flanks in gear pairs in the eigenfrequency range, 1980; Analysis of iterative method of design, 1983; Interactive communication by means of sketching in design, 1984; systematic design in intelligent CAD systems, 1985; Intelligent expert system for creating tyres and on-line manufacturing on CNC, 1986; Functional classification of structural element in design, 1990; Expert systems for design and development process, Models and concepts, 1990; Expert systems in the conception phase in design, 1992; Analysis of flow in water turbines and strength analysis of Elements, 1994; Design environment for designing drive elements, 1995; Quality assurance in design and development process, 1995, Optimisation of cylindrical gear pairs, Copernicus, 1996; Integrated information system in design and development process, 1996; Prescriptive model with explicit use of physical laws, 1997; Method of wavelet tomographic images, 1998; Research of PDM systems for a tool-maker's shop, 1999; Analysis of tomographic images using image processing, 1999. Concurrent engineering in design process 2000, Virtual enterprises by tool makers 2000, Hydraulics flow through hydro turbine 2001, three patents by the spread manure machine 2002, euro patent for principles by the spread manure machine 2003. He has more of 65 scientific papers (journals SCI, invited papers and papers on the conferences with referees).

From 1964 until now he completed more than 250 projects which are finally operated in industry or public in ex-Yugoslavia, Italy, USA, Iran, Egypt, Nigeria, Algeria, Russia, Greece, Germany etc.

Pedagogical Work

Undergraduate study (for future mechanical engineers and industrial designers)

He lectures the following subjects: Fundamentals of Design and Design Procedures, Industrial Design, Design from non-metal materials, Computer- Aided Design, Design of Machines and Devices, Machine Elements (Art Academy, Department of Industrial Design), CAD-CAM Methods (University of Sarajevo), Mechanical design and elements (Univ. Ljubljana, Faculty for Pedagogic)

Postgraduate Study

In master science courses he is responsible for the subject Theory of Computer-Aided Design, Design Science, Concurrent engineering, Technical information systems
He is member of the committee for master and doctor thesis on the University of Ljubljana, Zagreb, Sarajevo, Delft.

INVITED LECTURES

- 1982 Department of Precision Machinery, University of Tokyo, Japan
- 1983 Tsukuba, Department of ME&Robotics, Japan
- 1995 University of Illinois, USA

1997 Faculty of ME, Boston, USA

2001 E-GPR course Delph, Ljubljana, Laussane (three years)

2.1.2 List of references

2.1.2.1 Original Scientific Articles

1. DUHOVNIK, Jože. O ustreznosti priporočila za določitev mere čez zobe po standardu JUS. *Stroj. vestn.*, 1979, letn. 25, št. 5/6, str. 117-122. [COBISS.SI-ID 3154715]
JCR IF (1998): 0.024; SE, x: 0.421 (89/95), engineering, mechanical
2. DUHOVNIK, Jože. Analiza skiciranja za računalniško podprto konstruiranje = Analysis of sketching in CAD. *Stroj. vestn.*, 1985, letn. 31, št. 4/6, str. 73-77. [COBISS.SI-ID 3155227]
JCR IF (1998): 0.024; SE, x: 0.421 (89/95), engineering, mechanical
3. EMRI, Igor, METLIKOVIČ, Peter, PAVŠEK, Vojko, DUHOVNIK, Jože. Analiza gibanja kolesa igrače = Analysis of movement of a toy wheel. *Stroj. vestn.*, 1988, vol. 34, no. 4/6, str. 49-58. [COBISS.SI-ID 5558786]
JCR IF (1998): 0.024; SE, x: 0.421 (89/95), engineering, mechanical
4. DUHOVNIK, Jože, ŽAVBI, Roman. Expert systems in conceptual phase of mechanical engineering design. *Artif. intell. eng.* [Print ed.], 1992, vol. 7, no. 1, 37-46. [COBISS.SI-ID 2808347]
JCR IF (1995): 0.226; SE, x: 0.682 (29/39), computer science, artificial intelligence, x: 0.318 (27/49), engineering
5. HERAKOVIČ, Niko, DUHOVNIK, Jože, NOE, Dragica. Sila trenja v pnevmatičnem valju = Friction force in the pneumatic cylinder. *Stroj. vestn.*, okt.-dec. 1992, let. 38, št. 10/12, str. 279-288, ilustr. [COBISS.SI-ID 62843136]
JCR IF (1998): 0.024; SE, x: 0.421 (89/95), engineering, mechanical
6. DUHOVNIK, Jože, TAVČAR, Jože, KOPOREC, Jože. Project manager with quality assurance. *Comput. Aided Des.* [Print ed.], May 1993, vol. 25, no. 5, 311-320. [COBISS.SI-ID 2808603]
JCR IF: 0.507; SE, x: 0.43 (13/43), computer science, software, graphics, programming
7. HERAKOVIČ, Niko, DUHOVNIK, Jože, NOE, Dragica, PETKOVIČ, Zvone. Modelling and simulation of a pneumatic drive using the adiabatic model. *Gépgyártástechnológia*, 1993, 23, 7/8, str. 323-327. [COBISS.SI-ID 1895963]
8. ŽAVBI, Roman, DUHOVNIK, Jože. Design environment for the design of mechanical drive units. *Comput. Aided Des.* [Print ed.], 1995, vol. 27, no. 10, str. 769-781. [COBISS.SI-ID 1795099]
JCR IF: 0.654; SE, x: 0.388 (10/49), computer science, software, graphics, programming
9. ŽAVBI, Roman, DUHOVNIK, Jože. The analytic hierarchy process and functional appropriateness of components of technical systems. *J. eng. des. (Print)*. [Print ed.], 1996, vol. 7, no. 3, str. 313-327. [COBISS.SI-ID 2044443]
10. KOLŠEK, Tomaž, DUHOVNIK, Jože. Critical detail in a Kaplan turbine blade : stress analysis and contribution to blade shape development by considering stress criteria. V: *Hydropower into the*

next century, Portorož, 15-17 September, 1997 : conference papers. Sutton: Aqua-Media International, 1997, str. 197-204. [COBISS.SI-ID 2376475]

11. DUHOVNIK, Jože, TAVČAR, Jože. Concurrent engineering in real and virtual tool production. *Concurr. eng. res. appl.*, 1999, vol. 7, no. 1, str. 67-79. [COBISS.SI-ID 3104027]

JCR IF: 0.418; SE, x: 0.661 (40/76), computer science, interdisciplinary applications, x: 0.323 (10/33), engineering, manufacturing, x: 0.414 (22/50), operations research & management science

12. ŽAVBI, Roman, DUHOVNIK, Jože. Conceptual design of technical systems using functions and physical laws. *Artif. intell. eng. des. anal. manuf.*, 2000, 14, str. 69-83. [COBISS.SI-ID 3639579]

JCR IF: 0.171; SE, x: 0.759 (62/71), computer science, artificial intelligence, x: 0.685 (64/75), computer science, interdisciplinary applications, x: 0.405 (41/58), engineering, multidisciplinary, x: 0.352 (27/35), engineering, manufacturing

13. DUHOVNIK, Jože, VRHOVEC, Janez, TAVČAR, Jože. Principles of individual and small-quantity production processes. *Concurr. eng. res. appl.*, 2000, vol. 8, no. 2, str. 89-103. [COBISS.SI-ID 3810331]

JCR IF: 0.736; SE, x: 0.685 (20/75), computer science, interdisciplinary applications, x: 0.352 (4/35), engineering, manufacturing, x: 0.463 (8/51), operations research & management science

14. TAVČAR, Jože, DUHOVNIK, Jože. Typical models of product data integration in small and medium companies. *Int. j. adv. manuf. technol.*, 2000, vol. 16, issue 10, str. 748-758. [COBISS.SI-ID 3810075]

JCR IF: 0.374; SE, x: 0.519 (24/44), automation & control systems, x: 0.352 (15/35), engineering, manufacturing

15. DUHOVNIK, Jože, VRHOVEC, Janez. Doprinos simulaciji proizvodnih procesa u CAPP = Contribution to the simulation of production processes in CAPP. *Mašinstvo (Zenica)*, 2000, god. 4, br. 2, str. 75-92. [COBISS.SI-ID 3809819]

16. JELIĆ, Nikola, KOLŠEK, Tomaž, BERGANT, Anton, DUHOVNIK, Jože. Razsipanje moči curka vode v umirjevalni posodi z iglastim zasunom = Dissipation in a vertical needle valve induced jet in a pressure chamber. *Stroj. vestn.*, 2000, letn. 46, št. 9, str. 595-606. [COBISS.SI-ID 4202779]

JCR IF: 0.012; SE, x: 0.461 (101/102), engineering, mechanical

17. DUHOVNIK, Jože, STARBEK, Marko, DWIVEDI, Suren N., PRASAD, Biren. Development of new products in small companies. *Concurr. eng. res. appl.*, 2001, vol. 9, no. 3, str. 191-210. [COBISS.SI-ID 4930331]

JCR IF: 0.275; SE, x: 0.692 (61/76), computer science, interdisciplinary applications, x: 0.351 (23/35), engineering, manufacturing, x: 0.473 (40/53), operations research & management science

18. ŽAVBI, Roman, DUHOVNIK, Jože. Conceptual design chains with basic schematics based on an algorithm of conceptual design. *J. eng. des. (Print)*. [Print ed.], 2001, vol. 12, no. 2, str. 131-145. <http://tandf.catchword.com/titles/tandf/09544828/v12n2/contp1-1.htm>. [COBISS.SI-ID 4503067]

JCR IF: 0.208; SE, x: 0.418 (40/58), engineering, multidisciplinary

19. KOS, Leon, DUHOVNIK, Jože. Cutting optimization with variable-sized stock and inventory status data. *Int. J. Prod. Res.*, 2002, letn. 40, št. 10, str. 2289-2301. [COBISS.SI-ID 5294363]

JCR IF (2001): 0.438; SE, x: 0.358 (8/30), engineering, industrial, x: 0.351 (9/35), engineering, manufacturing, x: 0.473 (23/53), operations research & management science

20. HORVÁTH, Imre, DUHOVNIK, Jože, XIROUCHAKIS, Paul. Learning the methods and the skills of global product realization in an academic virtual enterprise. Eur. j. eng. educ., 2003, letn. 28, št. 1, str. 83-102. <http://www.tandf.co.uk/journals>. [COBISS.SI-ID 5654043]

2.1.2.2 Short Scientific Articles

21. TALÍČ-ČIKMIŠ, Amra, DUHOVNIK, Jože, PEPELNJAK, Tomaž. Numerička simulacija procesa dubokog izvlačenja lima = Numerical simulation of the sheet metal deep - drawing process. Mašinstvo (Zenica), 2001, god. 5, br. 1, str. 3-10. [COBISS.SI-ID 4452379]

2.1.2.3 Published Scientific Conference Contributions (invited lectures)

22. DUHOVNIK, Jože, KIMURA, Fumihiko, SATA, Toshio. Contribution to methodic in CAD. V: TEN HAGEN, Paul J. W. (ur.). Eurographics '83 : proceedings of the International Conference and Exhibition, University of Zagreb, Faculty of Electrical Engineering, Zagreb, Yugoslavia, 31 August - 2. September 1983. Partisipants ed. Amsterdam; New York; Oxford: North-Holland, 1983, str. 113-132. [COBISS.SI-ID 7709145]

23. DUHOVNIK, Jože. Contribution for natural classification of products related to CAD/CAM. V: CIRP - International Seminar on CA-Design, Ljubljana, Yugoslavia, December 4-5, 1990. Ljubljana: Faculty of Mechanical Engineering, 1990, 15 str. [COBISS.SI-ID 2818843]

24. DUHOVNIK, Jože, ŽAVBI, Roman. Expert systems in mechanical engineering design. V: RZEVSKI, G. (ur.), ADEY, R. A. (ur.). Applications of artificial intelligence in engineering VI. Southampton; Boston: Computational Mechanics Publications; London; New York: Elsevier, cop. 1991, str. 31-43. [COBISS.SI-ID 2816539]

25. DUHOVNIK, Jože. Functional relations between various physical laws. V: MARJANOVIĆ, Dorian (ur.). Proceedings of the 5th International Design Conference DESIGN 98, May 19-22, 1998, Dubrovnik, Croatia. Zagreb: Faculty of Mechanical Engineering and Naval Architecture: Centre of Technology Transfer; Zürich: Workshop Design-Konstruktion, 1998, str. 5-15. [COBISS.SI-ID 2581019]

26. TAVČAR, Jože, DUHOVNIK, Jože. Model of communication in the design process. V: MARJANOVIĆ, Dorian (ur.). Proceedings of the 6th International Design Conference DESIGN 2000, Cavtat, Dubrovnik, Croatia, May 23-26, 2000. Zagreb: Centre of Technology Transfer: Faculty of Mechanical Engineering and Naval Architecture; Zürich: Workshop Design-Konstruktion, 2000, str. 55-60 in 055.pdf (CD-ROM). [COBISS.SI-ID 3720475]

27. DUHOVNIK, Jože. New challenges in the product development process. V: SUSZ, Slawomir (ur.). Zintegrowany rozwój produktu i procesów produkcyjnych, 21-22 listopada 2002, Wrocław : integrated product and process development : centre for advanced manufacturing technologies, institute of production engineering and automation, Wrocław university of technology. Wrocław: Oficyna Wydawnicza Politechniki Wrocławskiej, 2002, str. 37-57. [COBISS.SI-ID 5500699]

2.1.2.4 Published Professional Conference Contribution (invited lecture)

28. DUHOVNIK, Jože, TAVČAR, Jože. Documentation Flow with Quality Assurance. V: Zbornik

prednášok : medzinárodná konferencia ca. technológie v strojárstve, Bratislava, 3.-4. október 1994, str. 117-126. [COBISS.SI-ID 1776923]

29. DUHOVNIK, Jože. Strateški menedžment za oživitev proizvodnje. V: IVANC, Andrej (ur.), JUNKAR, Mihael (ur.). Prva slovenska konferenca o menedžmentu inovativnih tehnologij MIT '95, Bled, Slovenija, 7. in 8. junij 1995. Ljubljana: Fakulteta za strojništvo, 1995, str. 18. [COBISS.SI-ID 1670427]

2.1.2.5 *Published Scientific Conference Contribution*

30. HLEBANJA, Jože, DUHOVNIK, Jože. Power transmission between teeth at small loads. V: Proceedings of the International Symposium on Gearing and Power Transmissions, Tokyo, August 30 - September 3, 1981. Vol. II. [S. l.: JSPE, 1981], str. 43-47. [COBISS.SI-ID 7709657]

31. DUHOVNIK, Jože. Geometrijski modeler za CAD/CAM. V: JEZERNIK, Anton (ur.), PRAŠNIČKI, Martin (ur.). CAD/CAM in metoda končnih elementov v strojništvu : mednarodni seminar, Maribor, oktober 1985. Maribor: TAM, Raziskave in razvoj, [1985], knj. 1, str. 107-119. [COBISS.SI-ID 4096539]

32. DUHOVNIK, Jože, OCEPEK, Drago, MATIČIČ, Niko, PREBIL, Ivan. Expert system for mechanical elements. V: SMITH, Alison (ur.). Knowledge engineering and computer modelling in CAD : proceedings of CAD 86, London 2-5 September 1986. London, [etc.]: Butterworths, 1986, str. 158-169. [COBISS.SI-ID 7708889]

33. DUHOVNIK, Jože, OCEPEK, Drago, MATIČIČ, Niko, PREBIL, Ivan. Expert system for mechanical elements. V: Proceedings of the second Austro-Yugoslav conference on computer graphic, June 26-27, 1986, Maribor, Yugoslavia. Maribor: Faculty of technical sciences, 1986, str. 79-95. [COBISS.SI-ID 3232283]

34. DUHOVNIK, Jože, TAVČAR, Jože. Design graphical language (DGL) for different geometrical modelers. V: CIRP - International Seminar on CA-Design, Ljubljana, Yugoslavia, December 4-5, 1990. Ljubljana: Faculty of Mechanical Engineering, 1990, 16 str. [COBISS.SI-ID 2818587]

35. DUHOVNIK, Jože. Specifičnosti ekspertnih sistemov v CAD. V: DUHOVNIK, Jože (ur.). Seminar Konstruiranje: raziskave, razvoj in uporaba, Brdo pri Kranju, 1990. Ekspertni sistemi v CAD procesu : modeli in izvedeni procesi, (Moderno konstruiranje). Ljubljana: [s. n.], 1990, str. 12-25. [COBISS.SI-ID 2816795]

36. BONEŠ, Borut, DUHOVNIK, Jože. Inteligentni modeler za avtopnevmatiko. V: DUHOVNIK, Jože (ur.). Seminar Konstruiranje: raziskave, razvoj in uporaba, Brdo pri Kranju, 1990. Ekspertni sistemi v CAD procesu : modeli in izvedeni procesi, (Moderno konstruiranje). Ljubljana: [s. n.], 1990, str. 117-133. [COBISS.SI-ID 2817051]

37. DUHOVNIK, Jože, ŽAVBI, Roman, TAVČAR, Jože. Variacijski računi čelnih in stožčastih zobnikov s predoceno funkcionalnosti. V: DUHOVNIK, Jože (ur.). Seminar Konstruiranje: raziskave, razvoj in uporaba, Brdo pri Kranju, 1990. Ekspertni sistemi v CAD procesu : modeli in izvedeni procesi, (Moderno konstruiranje). Ljubljana: [s. n.], 1990, str. 172-194. [COBISS.SI-ID 2817307]

38. ŽAVBI, Roman, DUHOVNIK, Jože. Ekspertni sistemi za snovanje prenosnikov. V:

- DUHOVNIK, Jože (ur.). Seminar Konstruiranje: raziskave, razvoj in uporaba, Brdo pri Kranju, 1990. Ekspertni sistemi v CAD procesu : modeli in izvedeni procesi, (Moderno konstruiranje). Ljubljana: [s. n.], 1990, str. 236-248. [COBISS.SI-ID 2817563]
39. DUHOVNIK, Jože. Function classification of structure elements in CAD. V: HUBKA, V... (ur.), KOSTELIĆ, A... (ur.). Proceedings of the 1990 International conference on engineering design, (WDK, 19). Zürich: Heurista; Zagreb: Judeko, [1990?], vol. 2, 810-821. [COBISS.SI-ID 2817819]
40. DUHOVNIK, Jože, ŽAVBI, Roman. Expert systems in machine design. V: HUBKA, V... (ur.), KOSTELIĆ, A... (ur.). Proceedings of the 1990 International conference on engineering design, (WDK, 19). Zürich: Heurista; Zagreb: Judeko, [1990?], vol. 2, 1038-1049. [COBISS.SI-ID 2818075]
41. DUHOVNIK, Jože, BUH, Janez. 2-D Geometrical Modeler. V: JEZERNIK, Anton (ur.). International Conference Design to Manufacture in Modern Industry DMMI'93, Bled, Slovenia, 7-9 June 1993. Proceedings. Maribor: Faculty of Technical Sciences, Department of Mechanical Engineering, 1993, str. 318-325. [COBISS.SI-ID 1737755]
42. ŽAVBI, Roman, DUHOVNIK, Jože. AHP and functional appropriateness of components of technical systems. V: HUBKA, Vladimir (ur.). 10th International Conference on Engineering Design, Praha, August 22-24, 1995. Proceedings of ICED 95, (WDK, 23). Zürich: Heurista, 1995, str. 573-583. [COBISS.SI-ID 1794843]
43. DUHOVNIK, Jože, TAVČAR, Jože. Documentation flow in the process of design. V: JEZERNIK, Anton (ur.), DOLŠAK, Bojan (ur.). International Conference Design to Manufacture in Modern Industry, Bled, Slovenia, 29-30 May 1995. Proceedings. Maribor: Faculty of Mechanical Engineering, 1995, str. 273-283, ilustr. [COBISS.SI-ID 68775424]
44. KOLŠEK, Tomaž, KOS, Leon, DUHOVNIK, Jože. Transfer of geometrical modeller data to NC machine. V: KUZMAN, Karl (ur.), BALIČ, Jože (ur.). International Conference on Industrial Tools ICIT '97, Maribor, Slovenia, April 21st - 22nd, 1997. Conference proceedings. Celje: TECOS - Slovenian Tool and Die Development Centre, 1997, vol. 1, str. 321-324. [COBISS.SI-ID 2078747]
45. TAVČAR, Jože, DUHOVNIK, Jože. Models of integration in the process of design. V: JEZERNIK, Anton (ur.), DOLŠAK, Bojan (ur.). 3rd International Conference Design to Manufacture in Modern Industry, Portorož, Slovenia, 8-9 September 1997. Design to manufacture in modern industry : proceedings. Maribor: Faculty of Mechanical Engineering, 1997, str. 43-50. [COBISS.SI-ID 2374171]
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2.1.2.6 Published Professional Conference Contribution

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82. DUHOVNIK, Jože. Uporaba SBR sistema za manjše čistilne naprave. V: Financiranje izgradnje čistilnih naprav : seminar za župane, predstavnike občin, ki so odgovorni za komunalne odpadne vode in predstavnike javnih komunalnih podjetij : Ljubljana, 26. september 2001, (Strokovni seminarji Spoznajte nove možnosti!). Ljubljana: GENERA, 2001, str. 5/1-5. [COBISS.SI-ID 4903707]

2.1.2.7 Published Professional Conference Contribution Abstracts

83. DUHOVNIK, Jože. Communication in design-development process. V: Tretja Slovenska konferenca o menedžmentu inovativnih tehnologij = Third Slovenian Conference on Management of Innovative Technologies, Piran, October 28-29, 1999. MIT '99 : povzetki : abstracts. [Ljubljana: Fakulteta za strojništvo, LAT], 1999, str. [24]. [COBISS.SI-ID 3520027]

84. DUHOVNIK, Jože. Machine industry and financing of energy infrastructures. V: DIMOVSKI, Vlado (ur.), ZAGER, Miran (ur.). Vključevanje slovenskega energetskega gospodarstva v koncept enotnega energetskega trga Evropske unije : zbornik prispevkov in razprav tematske konference. Ljubljana: Center za mednarodno konkurenčnost, 1999, str. 91. [COBISS.SI-ID 4122139]

85. DUHOVNIK, Jože. Influence of environment on R&D phase. V: 5th International Conference on Management of Innovative Technologies, Piran, Slovenia, October 11-12, 2001. MIT 2001 : abstracts proceedings. [Ljubljana: Faculty of Mechanical Engineering, LAT, 2001], str. 12-13. [COBISS.SI-ID 4735003]

2.1.2.8 Independent Scientific Component Parts in Monographs

86. DUHOVNIK, Jože. Systematic design in intelligent CAD systems. V: HAGEN, Paul J. W. ten (ur.), TOMIYAMA, Tetsuo (ur.). Intelligent CAD systems I : theoretical and methodical aspects, (Eurographic seminars). Berlin [etc.]: Springer, cop. 1987, str. 224-238. [COBISS.SI-ID 2818331]

87. ŽAVBI, Roman, DUHOVNIK, Jože. Model of conceptual design phase and its applications in the design of mechanical drive units. V: LEONDES, Cornelius T. (ur.). Computer-aided design, engineering, and manufacturing : systems techniques and applications. Vol. V, The design of manufacturing systems. Boca Raton [etc.]: CRC Press, cop. 2001, str. 7/1-38. [COBISS.SI-ID 4074267]

2.1.2.9 Encyclopaedia, Lexicon, Dictionary, etc. Entries

88. DUHOVNIK, Jože. Dr. Joze Duhovnik. V: PELLAM, John L. (ur.). 500 great minds of the early 21st century, (Bibliothèque World Wide). Irvine, Calif.: BWW Society, cop. 2002, str. 149. [COBISS.SI-ID 5311003]

2.1.2.10 Reviews, Book Reviews, Critiques

89. DUHOVNIK, Jože. P. Stetzenbach: CAD Leiterplattenentwicklung mit dem Schaltplan- und Layout-Programm EAGLE 3.5 : ocena knjige. Stroj. vestn., 1998, let. 44, št. 5/6, str. 203. [COBISS.SI-ID 2587931]
JCR IF: 0.024; SE, x: 0.421 (89/95), engineering, mechanical

2.1.2.11 Prefaces, Afterwords

90. DUHOVNIK, Jože. "Občutek prihajajoče svobode ..." : [beseda urednika]. V: DUHOVNIK, Jože (ur.). Sv. Jakob nad Medvodami : deseto leto demokracije in odločitve za samostojnost : zbornik. Medvode; Ljubljana: Organizacijski odbor Sv. Jakob 99, 1999, str. 7-9. [COBISS.SI-ID

4121371]

2.1.2.12 Interviews

91. BORAK, Neven, DUHOVNIK, Jože, PEKLENIK, Janez, KOVAČ, Bogomir, SENJUR, Marjan. Ogrožena nedolžnost ekonomije : izzivi v ekonomiji in politiki. Delo (Ljubl.), 37, št. 34 (11.II.1995), str. 30-31. Ilustr. [COBISS.SI-ID 47536384]

92. DUHOVNIK, Jože. Izdelek za različna kulturna okolja : telekonferenčna mednarodna šola strojništva. Delo (Ljubl.), 3. jun. 2002, letn. 44, št. 125, str. 12 (Znanost = Scientia), ilustr. [COBISS.SI-ID 5254683]

2.1.2.13 Other Articles or Component Parts

93. ŽAVBI, Roman, DUHOVNIK, Jože. Ekspertni sistem za zasnovno mehanskih prenosnikov. Stroj. vestn., 1993, let. 39, št. 1/2, str. 57-58. [COBISS.SI-ID 1858843]
JCR IF (1998): 0.024; SE, x: 0.421 (89/95), engineering, mechanical

94. DUHOVNIK, Jože. Duhovnik Jože. V: BACHMANN, Thomas M. (ur.). Who'swho in science and engineering : 2000-2001 : millennium edition, (Who's who in the West). 5th ed. New Providence, NJ: Marquis Who's who, cop. 1999, str. 341. [COBISS.SI-ID 5310235]

2.1.3 Monographs and other completed works

2.1.3.1 Scientific Monographs

95. DUHOVNIK, Jože, TAVČAR, Jože. Elektronsko poslovanje in tehnični informacijski sistemi : PDMS - products data management systems, (Konstruiranje: raziskave, razvoj in uporaba, 2). 1. tisk. Ljubljana: LECAD, Fakulteta za strojništvo, 2000. 1 zv. (loč. pag.), [7] f. zganj. pril., ilustr., tabele. ISBN 961-6238-43-4. [COBISS.SI-ID 108401920]

2.2 Dr. Nikola JELIĆ

2.2.1 Curriculum vitae

PERSONAL DATA

Name	Nikola D. JELIĆ
Born	08.1956, Sarajevo, Bosnia, ex-YU
Present address	Jakopičeva 11, SI-1000 Ljubljana, Slovenia
Marital status	Married, three children
Phone/home	(#386 1) 544 3498
Phone/office	(#386 1) 4771-433 (#43 512) 507-6220
E-mail	nikola.jelic@lecad.uni-lj.si nikola.jelic@uibk.ac.at

EDUCATION

1962-1970 **Elementary school** „Nebojša Jerković“, Prnjavor Mačvanski, Serbia (ex-YU)

- 1970-1974 **High school:** „Gymnasium Vera Blagojević“, Šabac, Serbia (ex YU), Final year project: „Radioactive emission rays“
- 1974 - 1981 Electrotechnical Faculty of the University of Belgrade, Technical Physics Department, Graduated in 1981 (B.Sc. in Electrical Engineering, specialised in Nuclear Physics and Engineering) (points average: 7.67 of 10) Final year project (points: 10 of 10) „Measurements of the material moisture by the application of the neutron absorption method“ (in Serbo-Croatian), Supervisor: Prof. Fedor Boreli.
- 1981 - 1990 Electrotechnical Faculty of the University of Belgrade, Plasma Physics Department. Graduated in 1990 (M.Sc. in Electrical Engineering, specialised in Plasma Physics and Engineering), (points: 10 of 10). Thesis: „Anode type double layers in weakly magnetized plasmas“ (in Serbo-Croatian). Supervisor: Prof. Dr. Bozidar Stanic
- 1993 - 1995 University of Innsbruck, Institute for Ion Physics and Institute for Theoretical Physics. Graduated in 1995 (Ph.D. in Physics, specialised in Experimental and Theoretical Plasma Physics) (points: excellent). Thesis: „Experimental and theoretical investigation of the plasma parameters in the presence of localised space-charge sheaths and double layers“ (in English). Supervisors: Dr. Roman Schrittwieser and Dr. Siegbert Kuhn.

SCIENTIFIC EXPERIENCE

- THEORETICAL** Analytic modelling combined with basic computation techniques in:
- plasma double layers and sheaths properties,
 - probe theory under current-carrying conditions,
 - similarity laws and general properties of non-magnetised plasma devices (double plasma devices),
 - plasma diodes
 - plasma oscillations and chaotic plasma behaviours
 - CFD (Computational Fluid Dynamics)
- EXPERIMENTAL**
- experiments in Linear Magnetized Plasma Device, DP- machines, Q-machine and Plasma Focus Device,
 - probe measurements in quiescent and current-carrying plasmas,
 - special probe design and constructions,
 - plasma sources design and construction,
 - Plasma Focus design and construction

EMPLOYMENT

- 1981-1982 High School "Kosta Abrasevic" Sabac, ex-YU Responsibilities: **Lecturer in Mathematics and Physics.**
- 1984-1986 Energoprojekt Engineering, Design and Consulting Co." Thermal and Nuclear Power Plants Department, Belgrade. Responsibilities: **Design Engineer, QA Engineer.**
- 1986-1993 "Jozef Stefan" Institute, Reactor Physics Department, Plasma Physics Laboratory, Ljubljana, Slovenia, Responsibilities: **Research Associate.**
- (1993-1995) PhD study and investigations at University of Innsbruck, Institute for Ion Physics, Innsbruck, Austria.
- 1995-1995 Depal, p.o., export-import Co, Ljubljana, Slovenia, Responsibilities: **Commercial director.**
- 1996-2002 Litostroj, Turbine Factory, Turbine Design Dept, Ljubljana, Slovenia, Responsibilities: **Principal Research Engineer.**

1998-present Faculty of Mechanical engineering of University of Ljubljana, Slovenia,
Responsibilities: **Research Associate.**

ADDITIONAL SCIENTIFIC FIELDS OF INTEREST

Classical Mechanics; Classical Electrodynamics; Statistical Physics; classical interpretations of Quantum Theory.

NON-SCIENTIFIC EXPERTISES AND SKILLS

Carrying out Quality Assurance for nuclear power plants; expertise in making regulatory and technical documentation; management in SME; teaching; electronics, maintaining telecommunication software and hardware; physical and technical measurements; using CAD and CFD program applications (e.g., IDEAS, TASCflow, COMET) as well as a large number of various scientific and commercial software applications supported by DOS, WINDOWS and UNIX/Linux.

LANGUAGES

English, Russian, Languages of former Yugoslavia

2.2.2 List of publications

2.2.2.1 Original Scientific Articles

1. GYERGYEK, Tomaž, ČERČEK, Milan, JELIĆ, Nikola, STANOJEVIĆ, Mladen. Experimental analysis of a low frequency instability in a magnetized discharge plasma. *Contrib. Plasma Phys.* (1988), 1993, vol. 33, str. 53-72. [COBISS.SI-ID 5686055]
2. STANOJEVIĆ, Mladen, ČERČEK, Milan, GYERGYEK, Tomaž, JELIĆ, Nikola. Diffusion model of saturation current collection by a planar Langmuir probe in a strong magnetic field. *Contrib. Plasma Phys.* (1988), 1993, vol. 33, str. 241-264. [COBISS.SI-ID 5751591]
3. JELIĆ, Nikola, ČERČEK, Milan, GYERGYEK, Tomaž, STANOJEVIĆ, Mladen. Determination of plasma parameters from plane-probe characteristics in a current-carrying plasma. *J. phys., D, Appl. phys.*, 1993, vol. 26, str. 49-61. [COBISS.SI-ID 5252135]
4. GYERGYEK, Tomaž, ČERČEK, Milan, JELIĆ, Nikola, STANOJEVIĆ, Mladen. Mode suppression of a two dimensional potential relaxation instability in a weakly magnetized discharge plasma. *Phys. lett., Sect. A.* [Print ed.], 1993, vol. 177, str. 54-60. [COBISS.SI-ID 5741351]
5. STANOJEVIĆ, Mladen, ČERČEK, Milan, GYERGYEK, Tomaž, JELIĆ, Nikola. Interpretation of a planar Langmuir probe current-voltage characteristic in a strong magnetic field. *Contrib. Plasma Phys.* (1988), 1994, vol. 34, str. 607-633. [COBISS.SI-ID 8798247]
6. GYERGYEK, Tomaž, ČERČEK, Milan, STANOJEVIĆ, Mladen, JELIĆ, Nikola. An investigation of the electrode current oscillations caused by the potential relaxation instability in a weakly magnetized discharge plasma. *J. phys., D, Appl. phys.*, 1994, vol. 27, no. 10, str. 2080-2094. [COBISS.SI-ID 9046567]
7. JELIĆ, Nikola, ČERČEK, Milan, STANOJEVIĆ, Mladen, GYERGYEK, Tomaž. An investigation of the collisionless discharge in the presence on an electron beam. *J. phys., D, Appl. phys.*, 1994, vol. 27, str. 2487-2498. [COBISS.SI-ID 9244455]

8. JELIĆ, Nikola, ČERČEK, Milan, STANOJEVIĆ, Mladen, GYERGYEK, Tomaž. Conditions for the existence of strong double layers. *J. Plasma Phys.*, 1994, vol. 51, str. 233-260. [COBISS.SI-ID 8794919]

9. PIEL, A., KLOSTERMANN, H., RODHE, A., JELIĆ, Nikola, SCHRITTWIESER, R. W. Ion sheath oscillations in double plasma machines. *Phys. Lett., Sect. A*. [Print ed.], 1996, vol. 216, str. 296-302. [COBISS.SI-ID 690276]

10. JELIĆ, Nikola, SCHRITTWIESER, Roman W., KUHN, Siegbert. Revised generalized Child-Langmuir law. *Phys. Lett., Sect. A*. [Print ed.], 1998, vol. 246, no. 3/4, str. 318-324. [COBISS.SI-ID 4889883]

11. JELIĆ, Nikola, KOLŠEK, Tomaž, BERGANT, Anton, DUHOVNIK, Jože. Razsipanje moči curka vode v umirjevalni posodi z iglastim zasunom = Dissipation in a vertical needle valve induced jet in a pressure chamber. *Stroj. vestn.*, 2000, letn. 46, št. 9, str. 595-606. [COBISS.SI-ID 4202779]

12. JELIĆ, Nikola, KUHN, Siegbert, SCHRITTWIESER, R. Similarity rules for collisionless hot-filament discharges. *Contrib. Plasma Phys. (1988)*, 2003, letn. 43, št. 2, str. 94-110. [COBISS.SI-ID 5706779]

13. JELIĆ, Nikola, SCHRITTWIESER, R., KUHN, Siegbert. Effects of electron-absorbing boundaries on the plasma parameters of a hot-filament discharge. *Contrib. Plasma Phys. (1988)*, 2003, letn. 43, št. 2, str. 111-121. [COBISS.SI-ID 5707035]

2.2.2.2 Professional Articles

14. JELIĆ, Nikola, ČERČEK, Milan, GYERGYEK, Tomaž, MOZETIČ, Miran, STANOJEVIĆ, Mladen. Lastnosti plazme v pilotski RF plazemski napravi. *Vakuumist*, junij 1993, let. 13, št. 2, str. 31-33, ilustr. [COBISS.SI-ID 63276032]

2.2.2.3 Published Scientific Conference Contributions

15. PURIĆ, Jagoš, JELIĆ, Nikola, PLATIŠA, Mihajlo. Modified plasma focus device. V: KUREPA, Milan V. (ur.). Symposium on the Physics of Ionized Gases, Šibenik, September 1-5, 1986. *Contributed papers of SPIG '86*. Beograd: University, Department of Physics and Meteorology, 1986, str. 461-464. [COBISS.SI-ID 1052943]

16. ČERČEK, Milan, JELIĆ, Nikola. Experiments on double layers. V: PEŠIĆ, J..., JACQUINOT, J.... *Controlled fusion and plasma heating : European Conference on Controlled Fusion and Plasma Heating, Dubrovnik, May 16-20, 1988*, (Europhysics conference abstracts, 12B). London: European Physical Society, 1988, str. 1279-1283. [COBISS.SI-ID 7804711]

17. JELIĆ, Nikola, ČERČEK, Milan, GYERGYEK, Tomaž. On the electron velocity distribution in a collisionless plane discharge. V: LABAT, J. M. (ur.). 19th International Conference on Phenomena in Ionized Gases, Belgrade, July 10-14, 1989. *Contributed papers of the 19th ICPIG*. Belgrade: Faculty of Physics, 1989, str. 190-191. [COBISS.SI-ID 7923751]

18. JELIĆ, Nikola, ČERČEK, Milan, GYERGYEK, Tomaž. The current-voltage characteristics of a collisionless discharge in the presence of an anode type double layer. V: SEN, A., KAW, P. K. *International Conference on Plasma Physics, New Delhi, Nov. 22-28, 1989 : Contributed Papers*.

Volume 2. New Delhi: Sahitya Mudranalaya, 1989, 1989, str. 689-692. [COBISS.SI-ID 8059431]

19. JELIĆ, Nikola, ČERČEK, Milan, GYERGYEK, Tomaž. A more general collisionless plasma equation. V: VEŽA, D. *Contributed Papers and Abstracts of Invited Lectures and Progress Reports : XV Summer School and International Symposium on the Physics of Ionized Gases, September 3-7, 1990. Dubrovnik, Yugoslavia.* Zagreb: Institute of Physics of the University, 1990, str. 346-347. [COBISS.SI-ID 8033063]

20. JELIĆ, Nikola, ČERČEK, Milan, GYERGYEK, Tomaž. The sheath formation near an electron absorbing boundary. V: BRIFFOD, G., NIJSEN-VIS, Adri, SCHÜLLER, F. C. *Controlled Fusion and Plasma Heating : 17th European Conference on Controlled Fusion and Plasma Heating, Amsterdam, 25-29 June 1990 : Contributed Papers. Part IV,* (Europhysics Conference Abstracts, 14B, Part IV). London: Europ. Phys. Soc., 1990, str. 1815-1818. [COBISS.SI-ID 8033319]

21. GYERGYEK, Tomaž, ČERČEK, Milan, JELIĆ, Nikola. Properties of a plasma in a single plasma device. V: PREGELJ, Andrej (ur.). 11. jugoslovanski vakuumski kongres, Gozd Martuljek, 17.-20. april 1990. *Zbornik.* Ljubljana: Društvo za vakuumsko tehniko Slovenije, 1990, str. 104-110. [COBISS.SI-ID 8032807]

22. GYERGYEK, Tomaž, ČERČEK, Milan, JELIĆ, Nikola, STANOJEVIĆ, Mladen. Experimental analysis of a low frequency instability in a magnetized discharge plasma. V: *1992 International Conference on Plasma physics : Joint Conference of the 9th Kiev International Conference on Plasma Theory and the 9th International Conference on Waves and Instabilities in Plasmas combined with 19th EPS Conference on Controlled Fusion and Plasma Physics, Innsbruck, 29 June - 3 July 1992. Vol. 16C, Part 3.* Innsbruck: The European Physical Society, 1992, str. 1761-1764. [COBISS.SI-ID 5506599]

23. STANOJEVIĆ, Mladen, ČERČEK, Milan, JELIĆ, Nikola, GYERGYEK, Tomaž. Electric current collection by Langmuir probe in strong magnetic fields. V: *1992 International Conference on Plasma Physics : Joint Conference of the 9th Kiev International Conference on Plasma Theory and the 9th International Conference on Waves and Instabilities in Plasmas combined with the 19th EPS Conference on Controlled Fusion and Plasma Physics, Innsbruck, 29 June - 3 July 1992. Contributed Papers, Part II,* (Europhysics Conference Abstracts). Innsbruck: European Physical Society, 1992, str. 1171-1178. [COBISS.SI-ID 5506087]

24. STANOJEVIĆ, Mladen, ČERČEK, Milan, JELIĆ, Nikola, GYERGYEK, Tomaž. Plasma diagnostics with Langmuir probes in strong magnetic fields. V: STRITAR, Andrej (ur.), JENČIČ, Igor (ur.). Prvo srečanje jedrskih strokovnjakov Slovenije = First Meeting of the Nuclear Society of Slovenia, Bovec, Slovenia, 11.-12.6., 1992. *Zbornik referatov.* Ljubljana: Društvo jedrskih strokovnjakov Slovenije = Nuclear Society of Slovenia, 1992, str. 132-137. [COBISS.SI-ID 5484583]

25. STANOJEVIĆ, Mladen, ČERČEK, Milan, GYERGYEK, Tomaž, JELIĆ, Nikola. Determination of the transversal diffusion coefficient from the electron saturation current to a planar Langmuir probe in a strongly magnetized D.C. discharge argon plasma. V: *Europhysics Conference Abstracts : 20th EPS Conference on Controlled Fusion and Plasma Physics, Lisboa, 26-30 July 1993. vol. 17C,* (Europhysics Conference Abstracts, vol. 17C, part III). Lisboa: European Physical Society, 1993, str. 1175-1178. [COBISS.SI-ID 5970471]

26. JELIĆ, Nikola, ČERČEK, Milan, GYERGYEK, Tomaž, STANOJEVIĆ, Mladen. On the general conditions for double layer formations in finite plasmas. V: SCHRITTWIESER, Roman W. (ur.). *Fourth Symposium on Double Layers and Other Nonlinear Potential Structures in Plasmas,*

Innsbruck, Austria, July 6-8, 1992. Singapore [etc.]: World Scientific, cop. 1993, str. 364-369. [COBISS.SI-ID 5505063]

27. STANOJEVIĆ, Mladen, ČERČEK, Milan, GYERGYEK, Tomaž, JELIĆ, Nikola. Langmuir probe in strong magnetic fields. V: HEYN, M.F. (ur.), KERNBICHLER, W. (ur.), BIERNAT, H.K. (ur.). *Proceedings of the International Workshop on Plasma Physics : Current Topics in Astrophysical and Fusion Plasma Research.* Graz: Verlag für die Technische Universität Graz, 1993, str. 64-69. [COBISS.SI-ID 5969703]

28. JELIĆ, Nikola, ČERČEK, Milan, STANOJEVIĆ, Mladen, GYERGYEK, Tomaž. Conditions for a strong double layer formation in nonisothermal plasmas. V: HEYN, M.F. (ur.), KERNBICHLER, W. (ur.), BIERNAT, H.K. (ur.). *Proceedings of the International Workshop on Plasma Physics : Current Topics in Astrophysical and Fusion Plasma Research.* Graz: Verlag für die Technische Universität Graz, 1993, str. 151-156. [COBISS.SI-ID 5969959]

29. STANOJEVIĆ, Mladen, ČERČEK, Milan, GYERGYEK, Tomaž, JELIĆ, Nikola. Determination of the transversal diffusion coefficient from the study of current-voltage characteristics of a planar Langmuir probe in strong magnetic fields. V: STRITAR, Andrej (ur.), JENČIČ, Igor (ur.). *Proceedings.* Ljubljana: Društvo jedrskih strokovnjakov Slovenije: = Nuclear Society of Slovenia, 1993, str. 557-563. [COBISS.SI-ID 5970215]

30. GYERGYEK, Tomaž, ČERČEK, Milan, JELIĆ, Nikola, STANOJEVIĆ, Mladen. Analysis of the electrode current oscillations caused by the PRI in a weakly magnetized discharge plasma. V: HEYN, M.F. (ur.), KERNBICHLER, W. (ur.), BIERNAT, H.K. (ur.). *Proceedings of the International Workshop on Plasma Physics : Current Topics in Astrophysical and Fusion Plasma Research.* Graz: Verlag für die Technische Universität Graz, 1994, str. 144-149. [COBISS.SI-ID 8796711]

31. HOEFLER, Edvard, JELIĆ, Nikola, KOLŠEK, Tomaž. Numerical flow analysis in SAXO turbine by using different methods. V: *Hydropower into the next century, Portorož, 15-17 September, 1997 : conference papers.* Sutton: Aqua-Media International, 1997, str. 173-184. [COBISS.SI-ID 2428699]

2.2.2.4 Published Professional Conference Contributions

32. GYERGYEK, Tomaž, ČERČEK, Milan, JELIĆ, Nikola. Properties of a plasma in a single plasma device. V: PREGELJ, Andrej (ur.). 11. jugoslovanski vakuumski kongres, Gozd Martuljek, 17.-20. april 1990. *Zbornik.* Ljubljana: Društvo za vakuumsko tehniko Slovenije, 1990, str. 104-110, ilustr. [COBISS.SI-ID 67757056]

2.2.2.5 Final Research Reports

33. ŠKERGET, Leopold, DUHOVNIK, Jože, ŽAVBI, Roman, KOLŠEK, Tomaž, KOS, Leon, TAVČAR, Jože, KERCAN, Vladimir, ŠIROK, Brane, DJELIĆ, Vesko, RUS, Tomaž, VUJANIČ, Vladimir, PERŠIN, Zlatko, LIPEJ, Andrej, JOŠT, Dragica, GANTAR, Marjan, VUČKOVIĆ, Sašo, BERGANT, Anton, SIJAMHODŽIĆ, Esad, HOFLER, Edvard, JELIĆ, Nikola, JENKO, Anton, KALAGASIDIS, Kostas. *Razvoj hidravličnih karakteristik vodnih turbin : zaključno poročilo o rezultatih aplikativnega raziskovalnega projekta v letu 2000 [za MZT Slovenije].* Maribor: Fakulteta za strojništvo, 2000. 10 f. [COBISS.SI-ID 5822998]

34. JELIĆ, Nikola, KOLŠEK, Tomaž, DUHOVNIK, Jože. *Numerical study of flow asymmetry and self-sustained oscillations in geometrically symmetric cavities with confined jets, Confined jets in a cavity = Raziskave vodnega curka ujetega v posodi : interno poročilo o opravljenem znanstveno-raziskovalnem delu*. Ljubljana: Faculty of Mechanical Engineering, LECAD, 2002. 1 mapa, graf. prikazi. [COBISS.SI-ID 5081883]

35. JELIĆ, Nikola, KOLŠEK, Tomaž, DUHOVNIK, Jože. *Raziskave pretočnega trakta turbine tipa SAXO : poročilo o delu v okviru projekta MŠZŠ 1.2-1503-0263-99*. Ljubljana: Fakulteta za strojništvo, LECAD, 2003. [18] str., ilustr. [COBISS.SI-ID 5531931]

2.3 Mladen Stanojević

2.3.1 Curriculum vitae

Mladen Stanojević, Ph.D. in Physics (20.08.1966)

Bratov Učakar Street 10, Ljubljana, SI-1000, Slovenia

Home Tel.: +386-1-5071-831, +386-1-4234-031; GSM: +386-40-356-623

GRADUATE STUDIES:

1991-1994: University of Ljubljana, Faculty of Mathematics and Physics, post-graduate study of Physics in the field of Electro-Optics, M.Sc. examination passed in 1994, Ph.D. in Physics in 1997, in the field of Plasma Physics.

1986-1991: University of Ljubljana, Faculty of Mathematics and Physics, B.Sc. in Physics in 1991.

HIGH SCHOOL EDUCATION:

1981-1985: Bežigrad High School, Ljubljana.

COURSES:

27.05.-29.05.2002, 3.06.-5.06.2002, 17.06.-18.06.2002: HP-UX Overview: Introduction, System Administration, Network Administration, NETSEC d.o.o. and Hermes SoftLab d.d., Ljubljana.

28.03-29.03.2002: Efficient Team Work, Mercuri International, Ljubljana.

14.-15.04.1998: CYBERCORP, Dr. James Martin's Seminar, IBM Slovenia, Ljubljana.

23.02.-27.03.1998: Workshop on Nuclear Reaction Data and Nuclear Reactors: Physics, Design and Safety, International Centre for Theoretical Physics, Trieste, Italy.

8.-14.08.1994: 2nd International Summer School, "Let's Face Chaos through Non-Linear Dynamics", at the University of Ljubljana.

26.09.-4.10.1993: International Summer School, "Let's Face Chaos through Non-Linear Dynamics", at the University of Ljubljana.

17.-23.06.1993: Business Administration for Young Researchers, organized by GEA College, held at "Jožef Stefan" Institute, Ljubljana.

22.-27.02.1993: International Winterschool and Workshop on Plasma Physics, Pichl/Schladming, Austria, organized by the Institut für Theoretische Physik of the Technische Universität Graz and the Institut für Weltraumforschung of the Österreichische Akademie der Wissenschaften.

EMPLOYMENTS:

1.06.2003- Slovenian Nuclear Safety Administration, Železna Street 16, SI-1000, Ljubljana,

1.08.2001–31.05.2003: HERMES SoftLab d.d., Litijska Str. 51, Ljubljana, SI-1000, Slovenia; **type of business:** computer software development; **department:** Storage and Data Management, HP OpenView OmniBack Development Lab; **position:** Software Testing and Quality Assurance (QA) Engineer.

1.01.2000–31.07.2001: “Jožef Stefan” Institute, Jamova Str. 39, Ljubljana, SI-1000, Slovenia; **type of business:** science and technology; **department:** Reactor Engineering Division; **position:** Post-Doctoral Research Assistant (1.01.2000-31.12.2000), Research Associate (1.01.2001–31.07.2001).

1.06.1999-31.12.1999: University of Innsbruck, Institute of Theoretical Physics, Technikerstrasse 25, Innsbruck, A-6020, Austria; **type of business:** science and technology; **department:** Plasma and Energy Physics; **position:** Post-Doctoral Research Assistant.

1.04.1999-31.05.1999: HALCOM Informatika d.o.o., Tržaska Str. 118, Ljubljana, SI-1000, Slovenia; **type of business:** development of computer software for electronic banking; **position:** Computer Software Developer.

1.10.1991-31.03.1999: “Jožef Stefan” Institute, Jamova Str. 39, Ljubljana, SI-1000, Slovenia; **type of business:** science and technology; **department:** Reactor Physics Department, Plasma Physics Laboratory; **position:** Post-Graduate Research Assistant (1.10.1991-31.12.1997), Post-Doctoral Research Assistant (1.01.1998-31.03.1999).

PROFESSIONAL EXPERIENCE:

- Computer programming and information technology: development of object oriented computer software for electronic banking, computer software testing and quality assurance (QA).
- Reactor physics and reactor engineering: research and development projects for the “Krško” Nuclear Power Plant and Slovenian Nuclear Safety Administration, nuclear safety analyses, neutron transport calculations, numerical benchmark calculations, processing of nuclear data libraries, computer simulations of severe accidents in light water nuclear reactors.
- Theoretical and experimental plasma physics: plasma diagnostics, Langmuir probes, magnetized plasma, boundary plasma, plasma sheaths, double layers, near-electrode phenomena, plasma instabilities, plasma transport, plasma sources, plasma–solid surface interactions, mathematical modeling, fluid (CFD) and particle-in-cell (PIC) simulations, non-linear dynamics, chaos, turbulence.
- Publications: 50 bibliographical COBISS.SI units in the COBIB.SI mutual data base, which include 13 original scientific articles in international scientific journals.

COMPUTER SKILLS:

- Programming languages: C, C++, Fortran, Perl, SQL and basic knowledge of Assembly language.
- Operating systems: MS WINDOWS (3.x, 95, 98, NT 4.0, 2000, XP, 2003 Server), UNIX (AIX, HP-UX, Solaris), LINUX and OpenVMS.

- Software: MS Office, Lotus Domino/Notes, Corel Draw, Corel Photo Paint, Adobe Photoshop, Adobe Acrobat, HP OpenView OmniBack II/Data Protector, HP OpenView Network Node Manager, Rational ClearCase, Rational ClearDDTS, Reflection X, Latex, Gnuplot, MySQL, Scientific Workplace, Origin, Ghostview, Mathematica, Netscape Communicator, MELCOR, CFX ...
- Other: user knowledge of computer networks, data bases, neural networks, fuzzy logic and expert systems.

PROFESSIONAL ASSOCIATIONS:

Society of Mathematicians, Physicists and Astronomers of Slovenia, European Physical Society, Nuclear Society of Slovenia, European Nuclear Society.

LANGUAGE PROFICIENCY:

- Fluent: English, Slovene and Serbo-Croatian.
- Moderate: Russian, Macedonian, German.

2.3.2 List of publications

2.3.2.1 Original Scientific Articles

1. GYERGYEK, Tomaž, ČERČEK, Milan, JELIĆ, Nikola, STANOJEVIĆ, Mladen. Experimental analysis of a low frequency instability in a magnetized discharge plasma. *Contrib. Plasma Phys.* (1988), 1993, vol. 33, str. 53-72. [COBISS.SI-ID 5686055]
JCR IF: 0.273; SE, x: 1.465 (9/10), physics, fluids & plasmas
2. STANOJEVIĆ, Mladen, ČERČEK, Milan, GYERGYEK, Tomaž, JELIĆ, Nikola. Diffusion model of saturation current collection by a planar Langmuir probe in a strong magnetic field. *Contrib. Plasma Phys.* (1988), 1993, vol. 33, str. 241-264. [COBISS.SI-ID 5751591]
JCR IF: 0.273; SE, x: 1.465 (9/10), physics, fluids & plasmas
3. JELIĆ, Nikola, ČERČEK, Milan, GYERGYEK, Tomaž, STANOJEVIĆ, Mladen. Determination of plasma parameters from plane-probe characteristics in a current-carrying plasma. *J. phys., D, Appl. phys.*, 1993, vol. 26, str. 49-61. [COBISS.SI-ID 5252135]
JCR IF: 0.873; SE, x: 1.312 (23/39), physics, applied
4. GYERGYEK, Tomaž, ČERČEK, Milan, JELIĆ, Nikola, STANOJEVIĆ, Mladen. Mode suppression of a two dimensional potential relaxation instability in a weakly magnetized discharge plasma. *Phys. lett., Sect. A.* [Print ed.], 1993, vol. 177, str. 54-60. [COBISS.SI-ID 5741351]
JCR IF: 1.149; SE, x: 1.443 (17/50), physics, multidisciplinary
5. STANOJEVIĆ, Mladen, ČERČEK, Milan, GYERGYEK, Tomaž, JELIĆ, Nikola. Interpretation of a planar Langmuir probe current-voltage characteristic in a strong magnetic field. *Contrib. Plasma Phys.* (1988), 1994, vol. 34, str. 607-633. [COBISS.SI-ID 8798247]
JCR IF: 0.53; SE, x: 1.189 (13/19), physics, fluids & plasmas
6. GYERGYEK, Tomaž, ČERČEK, Milan, STANOJEVIĆ, Mladen, JELIĆ, Nikola. An investigation of the electrode current oscillations caused by the potential relaxation instability in a weakly magnetized discharge plasma. *J. phys., D, Appl. phys.*, 1994, vol. 27, no. 10, str. 2080-2094.

[COBISS.SI-ID 9046567]

JCR IF: 0.879; SE, x: 1.098 (28/52), physics, applied

7. JELIĆ, Nikola, ČERČEK, Milan, STANOJEVIĆ, Mladen, GYERGYEK, Tomaž. An investigation of the collisionless discharge in the presence on an electron beam. *J. phys., D, Appl. phys.*, 1994, vol. 27, str. 2487-2498. [COBISS.SI-ID 9244455]

JCR IF: 0.879; SE, x: 1.098 (28/52), physics, applied

8. JELIĆ, Nikola, ČERČEK, Milan, STANOJEVIĆ, Mladen, GYERGYEK, Tomaž. Conditions for the existence of strong double layers. *J. Plasma Phys.*, 1994, vol. 51, str. 233-260. [COBISS.SI-ID 8794919]

JCR IF: 0.615; SE, x: 1.189 (11/19), physics, fluids & plasmas

9. GYERGYEK, Tomaž, ČERČEK, Milan, STANOJEVIĆ, Mladen. Excitation of the potential relaxation instability in a weakly magnetized discharge plasma by a voltage step. *Contrib. Plasma Phys. (1988)*, 1996, vol. 36, str. 647-665. [COBISS.SI-ID 3863079]

JCR IF: 0.846; SE, x: 1.407 (10/17), physics, fluids & plasmas

10. GYERGYEK, Tomaž, ČERČEK, Milan, STANOJEVIĆ, Mladen. Experimental evidence of periodic pulling in a weakly magnetized discharge plasma column. *Contrib. Plasma Phys. (1988)*, 1997, vol. 37, str. 399-416. [COBISS.SI-ID 12561447]

JCR IF: 1.008; SE, x: 1.336 (11/19), physics, fluids & plasmas

11. STANOJEVIĆ, Mladen, ČERČEK, Milan, GYERGYEK, Tomaž. Experimental study of planar Langmuir probe characteristics in electron current-carrying magnetized plasma. *Contrib. Plasma Phys. (1988)*, 1999, vol. 39, str. 197-222. [COBISS.SI-ID 14013479]

JCR IF: 1.008; SE, x: 1.496 (11/19), physics, fluids & plasmas

12. ČERČEK, Milan, GYERGYEK, Tomaž, STANOJEVIĆ, Mladen. Effects of energetic electrons on collector and source potentials in a finite ion temperature plasma. *Contrib. Plasma Phys. (1988)*, 1999, vol. 39, str. 541-556. [COBISS.SI-ID 14611495]

JCR IF: 1.008; SE, x: 1.496 (11/19), physics, fluids & plasmas

13. SUBBA, F., TSKHAKAYA, D., BÜRBAUMER, H., HOZLMÜLLER-STEINACKER, U., SCHUPFER, N., STANOJEVIĆ, Mladen, KUHN, S. Including the effect of secondary-electron emission at the divertor targets in code modelling. *Plasma phys. control. fusion*, 2002, 44, str. 61-70. [COBISS.SI-ID 1525604]

JCR IF (2001): 1.91; SE, x: 1.467 (7/19), physics, fluids & plasmas, x: 2.054 (9/22), physics, nuclear

2.3.2.2 Professional Articles

14. JELIĆ, Nikola, ČERČEK, Milan, GYERGYEK, Tomaž, MOZETIČ, Miran, STANOJEVIĆ, Mladen. Lastnosti plazme v pilotski RF plazemski napravi. *Vakuumist*, junij 1993, let. 13, št. 2, str. 31-33, ilustr. [COBISS.SI-ID 63276032]

15. GYERGYEK, Tomaž, ČERČEK, Milan, STANOJEVIĆ, Mladen. Analytical and numerical solutions of the Van der Pol equation. *Elektroteh. vestn.*, 1996, vol. 63, str. 225-233. [COBISS.SI-ID 12402471]

16. GYERGYEK, Tomaž, ČERČEK, Milan, STANOJEVIĆ, Mladen. Lyapunov exponents for a harmonically forced van der Pol oscillator with a nonlinear restoring force. *Elektroteh. vestn.*, 1999, vol. 66, str. 84-91. [COBISS.SI-ID 14145319]

2.3.2.3 Published Scientific Conference Contributions

- 17.** GYERGYEK, Tomaž, ČERČEK, Milan, JELIĆ, Nikola, STANOJEVIĆ, Mladen. Experimental analysis of a low frequency instability in a magnetized discharge plasma. V: *1992 International Conference on Plasma physics : Joint Conference of the 9th Kiev International Conference on Plasma Theory and the 9th International Conference on Waves and Instabilities in Plasmas combined with 19th EPS Conference on Controlled Fusion and Plasma Physics, Innsbruck, 29 June - 3 July 1992. Vol. 16C, Part 3.* Innsbruck: The European Physical Society, 1992, str. 1761-1764. [COBISS.SI-ID 5506599]
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