

PROFESSOR DR. DRAGANA T. ŽIVKOVIĆ BIOGRAPHY & BIBLIOGRAPHY

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Professor DRAGANA ŽIVKOVIĆ passed away on 26th November 2016. She was a full professor, the head of the Department for Metallurgical Engineering, the chairperson for Extractive Metallurgy, the vice dean of Scientific Research and the dean of the Technical Faculty in Bor, University of Belgrade. She was also a member of the Academy of Engineering Sciences of Serbia, Editor-in-Chief of Journal of Mining and Metallurgy, Section B: Metallurgy, the founder and the president of the Committee for Thermodynamics and Phase Diagrams of Serbia.



Academic career

Professor Dragana Živković was born on 13th September 1965, to a respectable family from Zaječar, her mother Gordana was an ethnologist, and father Todor a primarius dr. - gynecologist. She completed her elementary and secondary education in her hometown Zaječar (Serbia). In 1989 she graduated from the Department of Extractive Metallurgy, Technical Faculty in Bor, University of Belgrade, where she also defended her master thesis titled “*Thermodynamic analysis of the quasi-linear cross-section A-Pb of the ternary system Pb-Bi-Mg*” in 1993. In 1995 she obtained her doctoral thesis titled “*Comparative thermodynamic analysis of the ternary system Pb-Zn-Ag in order to obtain pure silver from the crude lead*”, and earned a doctoral degree at the same faculty

In the course of her studies, she was recognized as a great potential which, after her graduation, enabled her to get a job at the same faculty. For the twenty-seven years, in the period from 1989 to 2016, she was employed at the Technical Faculty in Bor, University

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of Belgrade, where she went through all teaching positions: teaching assistant (1989), assistant (1993), assistant professor (1996), associate professor (2000) and the full professor in the field of Extractive Metallurgy and Metallurgical Engineering (2005) and in the field of Industrial Management (2006).

Professor dr Dragana Živković held many positions at the Technical Faculty in Bor. She was the chairperson of the Department of Metallurgical Engineering from 2004, and the head of the Department of Metallurgy (2005-2006, and 2014), the vice dean of Scientific Research and International Cooperation (2009-2015). From September 2015 she was the dean of the Technical Faculty in Bor (2015-2016).

She always performed her functions responsibly, systematically, and diligently. She considered the Technical Faculty in Bor her second home, which she continuously developed, nurtured and promoted through her life's work, which lead to its reputation being increased.

Dedicated to the memory of Professor Dragana Živković

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Educational activities

Professor Dragana Živković was involved in the teaching courses at all three levels at two academic study programs at the Technical Faculty in Bor, University of Belgrade: study program Metallurgical Engineering - basic academic studies (*Metallurgical Thermodynamics I, Iron and Steel Metallurgy and Basics of Extractive Metallurgy*), graduate academic studies – master studies (*Thermodynamics of Materials*) and at doctoral academic studies (*Metallurgical Thermodynamics II and Pyrometallurgical Processes*); study program Engineering Management - basic academic studies (*Management of New Technologies and Innovations*), graduate academic studies – master studies (*Strategic Management of New Technologies*) and doctoral academic studies (*Management in Knowledge*). She was the mentor of five doctoral theses, more than fifty undergraduate and master theses, and many students' scientific research papers. Professor Dragana Živković was the author and co-author of six university textbooks.

She was one of the most beloved teachers among students, as she was always trying to arouse curiosity and inquiring spirit, so that every student who listened to her lectures gained valuable knowledge, not only in educational sense, but also the knowledge about life, because she was the person who held the greatest human and moral values. Always cordial and smiling, she captivated her interlocutors with kindness and understanding, which set an example to her associates on how to behave toward colleagues and students.

Field of scientific research and experimental achievements

The biggest part of her life was dedicated to scientific research. Her extensive scientific opus included various research in the areas of thermodynamics of multicomponent metal systems, advanced metallic materials, kinetics of metallurgical processes, environmental protection, archaeometallurgy, as well as management of new technologies and innovations and knowledge management.

The goals of her studies at the beginning of scientific research was calorimetric investigations of different systems with the use of the Oelsen's method [1-11], experimental determination of activities in liquid alloys by EMF method [12-17], calculation of ternary liquid alloys' viscosities [18, 19]. Later focus of her research was experimental investigation and thermodynamic prediction [20-27], calculation of thermodynamic properties [28-36], phase diagram and phase equilibria investigation [10, 25 37-47] of different ternary alloys. Many binary [1, 3, 28, 45, 48-

53] and ternary alloys [1, 25, 28, 29, 31, 33, 35, 38, 42, 46, 51, 54-69], Pb-based [1-4, 28, 38, 48, 50, 56, 57, 65, 70-72], Ga-based [5, 12-16, 20, 29, 31, 32, 37, 40, 52, 54, 55, 73-75], In-based [43, 44, 61, 64, 76] and Ag-based alloys [26, 34, 39, 58, 59, 66, 77-80], lead-free solder materials [81-84] was study by Dragana herself or by her research group.

Scientific research activity – project activity National research projects and cooperation with the economy

Professor Dragana Živković, participated in more than 20 national projects. She was the team leader for three following projects financed by the Ministry of Education, Science and Technological Development of the Republic of Serbia: “*Improving the Energy Efficiency of the Technological Process of Pyrometallurgical Extraction of Copper*” (2005-2007), Project No. EE232025, - within the national energy efficiency program; “*Thermodynamics and Phase Balance of Insoluble Soldering materials*” (2006-2010), Project No. ON142043 within the basic research in the field of chemistry and “*Contemporary Multicomponent Metallic Systems and Nano-Structural Materials with Different Functional Properties*” (2011-2016), Project No. ON172037, within the basic research in the field of chemistry. She was the coordinator of the Project “*Festival of Science - Timok Scientific Tornado - TNT13*” (2013), funded by the Center for Science Promotion.

As a project manager for metallurgical processes, (license No. 385D07106 obtained by Serbian Chamber of Engineers, since 2006), she contributed in the realization of 14 projects.

Programs of bilateral scientific and technical cooperation

Professor Dragana Živković was the team leader for four bilateral projects: two with Central State University, Changsha, China (for the period 2011-2012, “*Thermodynamic Investigation of Zn-Al-Me (Me = Ni, Ge, Fe) Systems Through Comparative Approach – First-Principles Calculations, CALPHAD and Key Experiments*”, and in 2013-2014, “*Comparative Thermodynamic Investigation and Characterization of Advanced Ecological Shape Memory Alloys*”), one project with the Faculty of Natural Sciences and Engineering, University of Ljubljana, Slovenia, (from 2014-2015: “*Thermodynamic Analysis and Phase Equilibria Investigation in Some Low Melting Alloys of the Zn- Al-Sn-Ga-In System*”) and one project with the Faculty of Metallurgy in Sisak, University of Zagreb, Croatia (2016-2017, “*Development and characterization of innovative shape memory alloys in the Cu-Al-Mn-Me (Me = Ag, Au, Ce) system*”).



International projects

Throughout her career, professor Dragana Živković participated in 15 international projects: *COST535 – Thermodynamics of Aluminides - THALLU* (2002-2006); *COST531 – Lead-Free Solder Materials - LFS* (2002-2006); *COST MP0602 – Advanced Solder Materials for High Temperature Applications – Their Nature, Design, Process and Control in a Multiscale Domain - HISOLD* (2007-2011); *COST MP0903 – Nano-Alloys* (2011-2014); *PHARE CBC RO – Creation of the Center for Entrepreneurship and Intercultural Management: Business Development – Success Fulenterpreneurship Practice for Social Organizations in Caras-Severin and Bor* (2008-2009); *PHARE CBC RO – The Virtual Space of Knowledge – the Way of Integration* (2008-2009); *DAAD Project - Resita Network – Innovation and Entrepreneurship* (2009.-2014); *TEMPUS-MCHEM – Modernization of Post-Graduate Studies in Chemistry and Chemistry Related Programs* (2010-2013); *TEMPUS - DEREL – Development of Environment and Resources Engineering Learning* (2010-2013); *Erasmus Mundus External Cooperation Window Project Basileus – Balkan Academic Scheme for Internationalization of Learning in Cooperation with EU*, 2010; *EU HETIP – High Education Teaching Infrastructure Project*. Professor Dragana Živković also participated in the project *Reconstruction of Teaching Buildings and Procurement of Teaching and Research Equipment* at the Technical Faculty in Bor (2010-2014); *Integrated Innovation Support Program (IISP)*, in the Project for the *Development of a National Network of Technology of Brokers* (2012-2013); and in the development program *WORLD* of the University of Zagreb – *Development of New Alloys with Shape Memory Effects – Multilateral project of the Faculty of Metallurgy in Sisak, University of Zagreb (Croatia), Technical Faculty in Bor, University of Belgrade (Serbia) and Faculty of Metallurgy and Materials, University of Zenica, (Bosnia and Herzegovina)* (2011-2015); *Erasmus + 2014*;

Until her death Professor Dragana Živković was a participant from the Technical Faculty in Bor in the *JST SATREPS project “Research on the Integration System of Spatial Environment Analysis and Advanced Metal Recovery to Ensure Sustainable Resource Development”*, with the Akita University, Japan Space Systems, Mitsui Mineral Development Engineering Co., Ltd., Japan and Mining and Metallurgy Institute Bor (2014-2019); She participated in the research project of the Croatian Foundation for Science: *“Designing the microstructure and functional properties of copper basis shape memory allays”* multilateral project of the Faculty of Metallurgy in Sisak, University of Zagreb,

(Croatia), Faculty of Chemistry and Technology, University in Split (Croatia), Faculty of Mechanical Engineering (Institute of Materials Technology), University of Maribor (Slovenia), Faculty of Natural Sciences and Technology, University of Ljubljana (Slovenia), Technical Faculty in Bor, University of Belgrade (Serbia), and Faculty of Metallurgy and Materials, University of Zenica, (Bosnia and Herzegovina) for the period 2015-2019.

International cooperation

Professor Dragana Živković accomplished important international educational and scientific collaboration with numerous universities, institutes, and research centers in the world (Japan, Italy, Hungary, Czech Republic, Poland, Slovenia, Sweden, France, Austria, Croatia, Germany, Romania, Bosnia and Herzegovina, Russia, Canada, Macedonia, Montenegro, China).

As a world renowned scientist she presented the results of her numerous studies at several foreign universities (Osaka, Genoa, Miskolc, Changsha, London, Krakow, Brno, Aachen, Porto, Ljubljana, Zenica, etc.), along with the continuous professional development through short study stays at universities in Japan, Italy, Hungary, China, Sweden, Germany, Slovenia, and others. Her achievements exceeded the borders of Serbia. From 2014 she was a visiting professor at the Central South University, Changsha (China), as well as a guest lecturer at doctoral studies at the Faculty of Natural Sciences and Technology, University of Ljubljana (Slovenia). In 2008 she was elected the Deputy Director of Research Centre for Innovative Materials Design and Application, and the permanent partner of the Science Centre for Materials Design and Preparation, Central South University, Changsha (China) since 2010.

Editor-in-chief

Professor Dragana Živković was the Editor-in-Chief (since 2012) and Co-Editor (1997-2012) of *Journal of Mining and Metallurgy, Section B: Metallurgy (JMMB)*. Due to her extraordinary editorial work and continuous devotion, JMMB has reached an international status since 2007, with the growing impact factor becoming one of leading international journal in the field of Metallurgical Engineering.

Memberships

Professor Dragana Živković was a member of the editorial boards of the following international journals: *Serbian Journal of Management* since 2006; *Journal of Entrepreneurship and Innovation* since



2009; Journal of Powder Metallurgy and Mining since 2011; Metallurgical and Materials Engineering since 2012; Rasplavi (Melts) since 2015. She was a member of the editorial boards of the following national journals: Journal of Metallurgy (JOM) from 2004 to 2012, Annals of Eftimie Murgu University Fascicule II - Economic Studies, from 2008, and Copper, from 2010.

She was a member of numerous international and national scientific and professional associations: a representative of Serbia in the Associated Phase Diagram and Thermodynamics Committee (APDTC) from 1999 and DC MPNS COST EU from 2010 to 2014; a member of the Committee for International Projects COST 531 from 2003 to 2007, and COST MP0602 from 2007 to 2011. Also, she was a member of the National Technology Platform in The Academy of Engineering Sciences of Serbia (AESS), a member of ASM International and TMS Society, a member of the Association of Metallurgical Engineers of Serbia and Montenegro, a member of the Serbian Association of Metallurgical Engineers, a member of the Serbian Chemical Society (SCS) (she also held the function of the president of the subsidiary of SCS in Bor from 2005-2007). She was the secretary of the Yugoslav Committee for Thermodynamics and Phase Diagrams (1999). She was a member of the National Center for Coordination of Scientific Research and Design Solutions in Metallurgy at the Balkan Center for Coordination of Scientific Research and Project Solutions in Metallurgy from 2003 to 2005. From 2004 to 2007 she was a member of the Commission for the Cultural Property of Archaeometallurgy and Industrial Archeology at the Republic Center for the Protection of Cultural Monuments, and a member of the Municipal Team Bor in the LEAP (Local Environmental Action Plan) contributing to the formation and realization of a number of different engineering solutions. She was actively participating in organizing several workshops, meetings, and lectures of guest lecturers from the country and abroad. Starting from 1989 she was also a member or a president of Scientific and Organizing Committees of numerous international and national scientific meetings. This year's 49th International October Conference on Mining and Metallurgy which will be held in Bor, Serbia, from 18-21 October 2017 is dedicated to the memory of Professor Dragana Živković, one of the most loyal and active committee members.

Other activities in science promotion

Professor Dragana Živković was one of the founders and coordinator of the „Club of Research Students “1902”, from 1992 to 2006. This club has grown into International Student Conference on

Technical Sciences (ISC). This year ISC will be organized for the 4th time by the Technical Faculty in Bor and co-organized by the University of Ljubljana, the Faculty of Natural Sciences and Engineering (Department of Materials and Metallurgy), Ljubljana, Slovenia; the University of Zenica, the Faculty of Metallurgy and Materials Science, Zenica, Bosnia and Herzegovina; the University of Zagreb, the Faculty of Metallurgy, Sisak, Croatia; the University of Chemical Technology and Metallurgy, the Faculty of Metallurgy and Material Science, Sofia, Bulgaria. At ISC2017, the award in honor of Professor Dragana Živković will be introduced for the best paper presented by a student in oral sections. The winner will be selected based on several criteria, including creativity and originality of research, clarity of presentation, and level of understanding.

She was one of the creators of the „Symposium on Thermodynamics and Phase Diagrams – TDPD“, since 2001. This year TDPD was organized for the 8th time by the Committee for Thermodynamics and Phase Diagrams of Serbia in cooperation with the Faculty of Technical Sciences in Kosovska Mitrovica, the Technical faculty in Bor and Associated Phase Diagram and Thermodynamics Committee (Poland, Czech Republic, Hungary, Bulgaria, Slovenia, Serbia, Montenegro, Romania, Croatia, Bosnia and Herzegovina) in Kosovska Mitrovica, from 19-20 June, 2017, and it was dedicated to the memory of Professor Dragana Živković. Starting from 2008 she was one of the founders of Resita Network “Entrepreneurship and Innovation”, and academic METNET network since 2008. Professor Dragana Živković enthusiastically took part in activities related to popularization and promotion of science. She was one of the creators of scientifically popular action BONIS (Bor Night of Researchers), since 2014. She was one of the authors of the exhibition „The Secret World of Metal and Minerals“, which was displayed in museums in Bor, Zajecar, and Knjazevac during 2013 and 2014.

Honors and awards

She earned the Honorary Member Charter from the Serbian Chemical Society in 2001. As a recognized scientist in the field of thermal analysis and calorimetry, she was involved in the editions WHO IS WHO in Thermal Analysis and Calorimetry (Edited by G. Liptay and J. Simon), Akademia Kiado and Lexica Ltd., Budapest, 2004, pp.242. as well as in WHO IS WHO in Thermal Analysis and Calorimetry (Edited by I. M. Szilágyi and G. Liptay), Springer International Publishing Switzerland, 2014, pp.333.



Publications of Scientific Results

As an author and co-author, Professor Dragana Živković published results from the various fields of science and research activities in the well-known journals, such as Journal of Alloys And Compounds [24, 26, 27, 46, 61, 68, 70, 77-80, 85-88], Journal of Materials Science [64, 69, 74], Thermochemica Acta [3, 7, 13, 38, 45, 49, 56, 57, 62, 63, 71, 72, 89-91], Materials Chemistry and Physics [21, 66, 92, 93], Journal of Physics And Chemistry of Solids [25, 47, 94], Journal of Thermal Analysis and Calorimetry [2, 4, 6, 8, 11, 23, 48, 50, 52, 54, 55, 59, 67, 73, 75, 76, 95-103], Calphad Computer Coupling of Phase Diagrams and Thermochemistry [22, 29, 31, 51, 104, 105], Transactions of Nonferrous Metals Society of China English Edition [35, 106], Journal of Phase Equilibria and Diffusion [107, 108], Journal of the Serbian Chemical Society [30, 32, 34, 39, 43, 44, 60, 109, 110], Journal of Mining and Metallurgy Section B Metallurgy [17, 53, 58, 65, 111-119], and so on. She published more than 220 papers in well-known international scientific journals, and more than 180 papers in national journals. She published more than 650 lectures in the proceedings of national and international scientific conferences, as well as 18 other invited lectures. Professor Dragana Živković had more than 700 citations (SCOPUS, accessed on October 9, 2017). She was the author and co-author of three monographs. She was the editor of a large number of proceedings from international and national scientific meetings, and a guest editor of several conference proceedings. She reviewed more than 50 scientific papers in the scientific journals from the SCI list. She was the reviewer of five international projects, several textbooks, and scientific books.

Non-academic personal achievements

Professor Dragana Živković's reached excellent teaching and scientific research results in her short life, and her professional career is a confirmation of her exceptional professional integrity.

As much as she was devoted to academia, Dragana Živković was also a poet, a painter and a sculptor, musically talented and educated, a founder and a member of the chamber choir *Lavrint*, which received numerous awards and recognitions at many concerts and choir competitions in the country and abroad. She was also a member of the instrumental music ensemble *VIS doktori*, the Slovenian Singing Society *Josip Vošnjak*, the artistic weaving workshop *Snovatica* in Zaječar, and of the Academic cultural club of the Technical Faculty in Bor.

As a colleague and associate, with her inexhaustible energy, cheerful spirit and enthusiasm, Professor Dragana Živković was the driving force and

the main motivator not only for the Department of Metallurgy but for the whole Technical Faculty as well. An erudite, an altruist and a philanthropist, she was a professor, a scientist and above all a good person. For anyone stumbling on the thorny road to science, she always had a word of encouragement and a word of wisdom. Technical Faculty in Bor is proud of and grateful to Professor Dragana Živković who, by her work of many years, contributed to its development and reputation. And for us, her colleagues, associates and students who had the honor and the privilege to know and to work with her, she will always remain a part of indelible memories.

On behalf of the Technical Faculty in Bor, University of Belgrade, and Journal of Mining and Metallurgy, Section B: Metallurgy.

Acknowledgments

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