

CURRICULUM VITAE

Research Scientist
BOŽIDAR G. ŽAKULA
 BSc Eng, MSc Technical Science,
 Retired Colonel of Serbian Army



Born	July 3 rd 1948. in Prijepolje, Serbia.
Nationality	Serbian.
Education	<p>1972. Bachelor of Science in Engineering, Faculty of Mechanical Engineering – Department for Ballistics, Belgrade University (Thesis: Statistical criteria for receiving the PT projectiles in accuracy tests).</p> <p>1973 Military School for Anti Aircraft Missile Officers</p> <p>1982. Master of Technical Science, Faculty of Mechanical Engineering – Department for Ballistics, Belgrade University (Thesis: Theoretical and experimental study of the projectile fragment efficiency).</p>
Professional experience in field of armament	<p>I have been working in Military Technical Institute Belgrade for more than 17 years in the Classic Weapons Division, and more than 15 years in Chemical-Nuclear Protection and Engineering Support Division:</p> <ul style="list-style-type: none"> • 1973 – 1979 the field of my work was research, development and laboratory, and field testing of (gun, howitzer, mortar, tank) ammunition (60, 81, 100, 105, 120, 122, 125, 130, 152, and 155 mm), and missile warheads. • 1980 – 1990 Chief of the Section for Experimental Nuclear Protection. (research, development and field testing air-blast simulators of nuclear explosion – from classical and fuel-air explosives) • 1991 - 2000 Chief of the Section for Anti-Armor Weapons (research, development and field testing armor-piercing fin-stabilized discarding sabot weapon 125 mm, classical kinetic energy small arms bullets and thermobaric warhead 90 mm. Development and implementation process of neutralization effects of special-purpose ammunition for attacking electrical power infrastructure BLU-114/B during the NATO aggression against SR Yugoslavia - Serbia). • 2000 – 2005 Head of the Chemical-Nuclear Protection and Engineering Support Division. (The study of structure and toxicity effects of depleted uranium projectiles) • At the moment of my retirement 2005., I was in colonel rank.

<p>Others professional experiences</p>	<p>During my work I gained experience in the following fields:</p> <p>I am familiar with many different kinds of rocket and missile warhead, projectiles and other weapons from Eastern and Western countries, with blast, fragmentation and penetration effects.</p> <p>High speed process data acquisition and analysis in laboratory and field test.</p> <p>Development technology for rendering safe unexploded ordnances by melting and emulsifying of explosive (TNT) by steam or hot water. Separation the explosive from water suspension without any environment pollution.</p> <p>I was involved in several international contracts concerning warhead design, chemical and nuclear weapon simulators and special part of physics of detonation.</p> <p>Implementation TRIZ methodology in field of warhead and artillery and tank ammunition development and design.</p>
<p>Educational experience</p>	<p>I taught Projectile and Missile Warhead Design, four years on Military Technical Academy and Military Technical Faculty in Belgrade.</p>
<p>Languages</p>	<p>English (reading 4, writing 3, speaking 3), Russian (reading 5, writing 4, speaking 4).</p>
<p>Computer skills</p>	<p>Languages: FORTRAN 90,</p> <p>Developer systems: MS Developer Studio</p> <p>Program Packages (TRIZ): Ideation Brainstorming, Innovation Work Bench, Knowledge Wizard</p> <p>Program Packages (CAD): Auto CAD, IDEAS</p> <p>Others: MS Office, ABBY Fine Reader, Internet ...</p>
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