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Dr. Amer Ajanović, UNSA lead scientist of the SARAI project



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A NATIONAL LABORATORY FOR BOSNIA-HERZEGOVINA, REAL EFFECTS OF ACADEMIC RESEARCH

Akademija nauka i umjetnosti Bosne i Hercegovine
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A NATIONAL LABORATORY FOR BOSNIA-HERZEGOVINA, REAL EFFECTS OF ACADEMIC RESEARCH

In Bosnia and Herzegovina, a vision is missing for creating an environment that nourishes fundamental research in arts and sciences. It is my opinion that only this fundamental research will create advances in BiH society and industry, defending its position on the world stage.

A radical change is needed in the educational system. It is not sustainable to have more than 100 faculties located at a mix of universities and higher-education institutes for just three million people. BiH needs at most three universities, centers of excellence, where the other institutions will have a crucial role in education and preparing some of the young scientists for further specialization at these universities.

A national science council should determine the areas where BiH can make a meaningful contribution to research on a global level.

For physics, the University of Sarajevo's contribution can be a laboratory that researches compact particle-accelerator technology. Its research will support BiH companies developing medical and material-science applications.

A detailed overview is given of the status of the SARAI project and its many possible spin-offs.

Edmond A. J. M. Offermann

Education

1988 Ph.D., University of Amsterdam (NIKHEF-K), the Netherlands.

1982 B.S., business management, University of Delft, the Netherlands.

Statement of Qualifications

- Expert in maximizing information extraction out of experimental data ranging from heart measurements, particle-collision experiments to financial market data.
- Expert in designing and implementing algorithms to model and analyze experiments. One of the authors of the software package used in the discovery of the Higgs boson at CERN.
- Member of a team at one of the world's largest and most successful hedge funds that developed automated trading systems covering most of the financial markets managing assets of more than \$ 50 billion.
- Former largest shareholder at the cable car operator in Saas Fee, Switzerland Hotel operator in Saas Fee, Switzerland

Amer Ajanović is currently leading research and development of the Sarajevo ion accelerator (SARAI) project at CERN and UNSA. He is an expert in computational electromagnetics and dynamics applied to linear particle accelerators and medical imaging systems. He is also proficient in modelling, building, and commissioning ion sources, beamlines, compact linear accelerators, diagnostic test stands, and experimental areas. Amer won the international Türkiye scholarship for an undergraduate degree at the Middle East Technical University and graduated in Physics and Electrical and Electronics Engineering with High Honours. He then won the UK Engineering and Physical Sciences Research Council's international doctoral fellowship and completed his Master of Research and PhD at Imperial and King's College London, where he won the best research project award.

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