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From Editor's desk

"Onog dana kada nauka počne proučavati nefizičke pojave,
u narednih deset godina napredovaće više nego u svim ranijim vekovima svoje istorije.''
Nikola Tesla

Stepen razvoja tehnike i olakšavanje životnih uslova je jedno od merila napretka industrijskih društava. Energija u svim oblicima je pristupačnija ljudima, dok je prenos energije omogućen elektromagnentim talasima. U nauci, sve smo bliži prihvatanju da je sve samo energija a da je materija samo jedan oblik „zgusnute" energije i da je njeno neprestano prostiranje ono što nazivamo elektromagnenti talas ili energetsko polje. U svim tehnološkim sistemima, električnim uređajima i telekomunikacionoj opremi, jedan deo energije se upotrebi za korisnu svrhu (energija ili prenos informacija) ali drugi, ne mali deo energije u obliku elektromagnentih talasa prodire u ljudskog telo i pravi biološke efekte. To su tehnogena električna, magnentna i elektromagnentna polja koja menjaju prirodno, životno (elektromagnetno) okruženje ljudi. U prirodnom zemljinom polju, ljudski organizam i njegov imuni sistem normalno funkcionišu, dok ova polja mogu imati potencijalno nepoželjno dejstvo. Nauka mora istražiti sve postojeće efekte kako bi upoznala korisnike sa mogućim zdravstvenim konsekvencama, zaštitila ljude i sprečila da tehnološki razvoj postane generator ugrožavanja zdravlja i promoter sistemskih oboljenja, o čemu se sve više govori u stručnoj javnosti. Neke od ovih pitanja smo želeli da rasvetlimo u ovom izdanju časopisa izborom radova sa 13. Međunarodne konferencije Primenjene elektromagnentike (*The 13th International Conference on Applied Electromagnetics*) - PES 2017, koja je održana u septembru 2017. godine u Nišu. Drugi radovi govore o aspektima delovanja tehnoloških postrojenja na životnu sredinu i ljude. Uredništvu časopisa je drago da su istraživači iz celog sveta prepoznali časopis *Safety Engineering* kao medijum u kome se mogu publikovati kvalitetna istraživanja iz oblasti zaštite životne sredine, zaštite na radu i zaštite od požara.

"The day science begins to study non-physical phenomena,
it will make more progress in one decade than in all the previous centuries of its existence.''
Nikola Tesla

Technology development and the improvement in ease of living are some of the criteria for the progress of industrial societies. Energy in all forms becomes more accessible to people, and it could be transferred by electromagnetic waves. In science, we got increasingly closer to accepting that everything is not more than energy, and that matter is just another form of "concentrated" energy. The continuous expansion is of energy what we call electromagnetic wave or energy field. In all technology systems, electrical appliances and telecommunications equipment, one part of energy is used for a useful purpose (energy or information transmission), while another, not a small fraction of energy in the form of electromagnetic waves penetrates the human body and produces biological effects. These are technogenic electric, magnetic and electromagnetic fields that change the natural, living (electromagnetic) environment of people. In the natural electric field of the Earth, the human organism and its immune system function normally; however, these fields may have potentially undesirable effects. Science needs to explore all the existing effects in order to introduce users with possible health consequences, protect people and prevent technological development from becoming a generator of endangered health and a promoter of systemic diseases, which is continuously discussed among professionals. We wanted to clarify some of these concerns in this issue of the journal by selecting papers from the 13th International Conference on Applied Electromagnetics - 13th International Conference on Applied Electromagnetics - PES 2017, held in September 2017 in Niš. Other papers in this issue deal with the aspects of environmental impact of technological plants. The Editorial Board is pleased to welcome the researchers from all over the world who have recognized Safety Engineering journal as a medium to publish their high-quality research in the field of environmental safety, occupational safety and fire protection.

On behalf of the editors
Prof. Dr. Dejan Krstić