

UNESCO CHAIR IN LIFE SCIENCES
LIFE SCIENCES INTERNATIONAL POSTGRADUATE
EDUCATIONAL CENTER

UNESCO/ISN
9th EMF International workshop

**“Bioelectromagnetics and Water Science
to Aid Environmental Health Defence”**



GARNI, ARMENIA 2016

Մեծարգո

Յրավիրում ենք Ձեզ մասնակցելու ՅՈՒՆԵՍԿՕ-ի կենսագիտության ամբիոնի և Նեյրոքիմիայի միջազգային կազմակերպության համատեղ կազմակերպվող 9-րդ միջազգային գիտաժողովին՝ նվիրված Էլեկտրամագնիսական դաշտերի կենսաբանական ազդեցության մեխանիզմներին, որը տեղի կունենա 2016 թ.-ի _____ Գառնիում: Գիտաժողովը տեղի կունենա Գառնիում գտնվող <<7 Զար>> առանձնատանը, Գառնի, Գրիգոր Չոհրաբ, 30

Dear Mr./Mrs. _____

We cordially invite you to participate to the 9th EMF International Workshop: "BioElectromagnetics and water Science to Aid Environmental Health Defence", which will take place

and is organized by UNESCO Chair of Life Sciences International Postgraduate Educational Center. Within the 9th EMF International workshop International Society for Neurochemistry supports the organization of ISN Symposium on "The neurochemical mechanisms of EMF effect on the nervous system and interaction with other forms of environmental pollution".

The workshop will be held in 7 Qar Private Villa, Garni, Grigor Zohrapi St., 30 Building

Day 1, Tuesday

09:00	Transfer to event venue
10:00-10:30	Registration
10:30-11:30	Opening ceremony
10:30-10:40	Welcome Speech of Minister of Education and Science of RA, Levon Mkrtchyan
10:40-10:50	Welcome Speech of Gayane Ayrapetyan
10:50-11:30	Keynote Lecture Prof. Sinerik Ayrapetyan Water Molecule as a Universal Messenger for Signal Transduction in Cell
11:30-12:00	Coffee break
Session 1: EMF Effects on the Physicochemical Properties of Water Chairmen: Prof. Alberto Foletti, Dr. Naira Baghdasaryan	
12:00-12:30	Keynote Lecture Prof. Shoogo Ueno (Japan) The Moses Effect and Control of Biological Cell Manipulation and Cell Growth by Magnetic Fields
12:30-13:00	Prof. Alberto Foletti (Italy) Bits of Electromagnetic Information Transfer through Aqueous System
13:00-13:30	Prof. Chitta Ranjan Mahata (India) Quantum Electro-Dynamics Helps Homoeopathy Achieve its Scientific Basis
13:30-14:30	Lunch
14:30-15:00	Prof. Hamid Mobasheri (Iran) The Role of Water in Biophysical Susceptibility of the Biological Macromolecules to EMF
15:00-15:25	Dr. Naira Baghdasaryan (Armenia) Peroxide Formation in Cell Aqua Medium as a Primary Messenger for the Biological Effects of Environmental Factors
15:25-16:25	Poster Session
16:30-17:00	Coffee Break
17:00-19:00	Excursion to Garni Temple and Geghard Monastery
19:00	Welcome Dinner in 7 Qar, Garni

Day 2, Wednesday

09:00 Transfer to event venue

ISN Symposium: The Neurochemical Mechanisms of EMF Effect on the Nervous System and Interaction with Other Forms of Environmental Pollution Chairmen: Prof. Shoogo Ueno, Prof. Soile Tapio

10:00-10:30 Prof. Oleg Krishtal (Ukraine)
Sensitivity of Ionotropic Brain Receptors to Environmental Pollution: Examples of Redox Metals and Other Redox Agents

10:30-11:00 Prof. Soile Tapio (Germany)
Long-term Changes in the Brain Induced by Ionizing Radiation

11:00-11:30 Coffee break

11:30-12:00 Prof. Ersan Odaci (Turkey)

The Effect of 900-Megahertz Electromagnetic Field on Hippocampus Morphology, Biochemistry and Learning Behavior in Early and Mid-Adolescent Male Rats

12:00-12:30 Prof. Shoogo Ueno (Japan)
Magnetic Brain Stimulation for Medical Treatments and Brain Research

12:30-13:00 Discussion
13:00-14:00 Lunch

Session 2: Biophysical Mechanisms of EMF Effect on Cell and Organism Chairmen: Prof. Oleg Krishtal, Dr. Arevik Minasyan

14:00-14:30 Prof. Fadel Mohammed Ali (Egypt)
Basic Interaction Mechanisms of ELF-EM Waves with Alive Systems

14:30 - 14:50 Ani Gasparyan (Armenia)
The Comparative Study of Magnetosensitivity of Excitable and Non-Excitable Cells

14:50-15:10 Dr. Hamlet Badalyan (Armenia)
The Study of Possible Mechanisms of Electromagnetic Waves' Impact on Biological Systems

15:10-15:40 Prof. Hamid Mobasheri (Iran)
Exposure to EMF Deviates the Function of Membrane Ion Channels, a Biophysical Interference with Signal Transduction

15:40-16:10

16:10-16:35

16:35-17:00

17:00-17:25

Free time

Day 3, Thursday

09:00

Transfer to event venue

Session 3: EMF and Pathology Chairmen: Prof. Fadel Mohammed Ali (Egypt), Dr. Armenuhi Heqimyan (Armenia)

09:40-10:10 Keynote Lecture

Prof. Fadel Mohammed Ali (Egypt)
EMF and Cancer; Risk and Benefits

10:10-10:35

Dr. Armenuhi Heqimyan (Armenia)
Age-dependent Effect of ELF/EMF on Rats

10:35-11:00

Dr. Arevik Minasyan (Armenia)
The Effects of Various Environmental Factors on Bacteria Growth in vivo and in vitro Conditions

11:00-11:20

Coffee Break

11:20-11:45

Dr. Vitali Kalantaryan (Armenia)
Non-ionizing Electromagnetic Radiation as a Potential Method Action on the Tumors

11:45-12:10

Prof. Nina Rubtsova (Russia)
Adaptive-Compensatory Dose-related Radiofrequency Electromagnetic Field Biological effect

12:10-12:35

Dr. Yerazik Mikayelyan (Armenia)
Dysfunction of Signaling System Controlling Sodium Gradient on the Membrane as a Primary Mechanism for Carcinogenesis

12:35 - 13:00

Naira Eloyan (Armenia)
Preclinical and Clinical Studies of ELF EMF Effect on Lactate Concentration in Blood

13:00-14:00

Lunch

Session 4: EMF Dosimetry from the Point of Public Health Chairmen: Prof. Marko Markov, Prof. Nina Rubtsova

14:00-14:30	Keynote Lecture	Prof. David Carpenter (USA) Environmental Exposures and Cancer
14:30 – 15:00		Prof. Marko Markov (USA) Dosimetry in Bioelectromagnetics
15:00 – 15:30		Prof. Nina Rubtsova (Russia) Dose as Intensity-time Dependence Criterion in Russian Federation Electromagnetic Field Hygienic Standardization
15:30 – 15:55		Tarmo Koppel (Estonia) Exposure to Radiofrequency Electromagnetic Radiation at Different Floors
15:55- 16:20		Anush Deghoyan (Armenia) The Correlation Between Brain Tissue Hydration Changes and the Parameters of Muscle Conductivity upon the Impacts of SMF and MMW
16:20-16:50		Coffee Break
16:50-17:45		Round Table on Creation of UNESCO/UNITWIN Network on Research and Postgraduate Education in Biophysics and Environmental Health (The project is suggested by LSIPEC) Chairman: Prof. Sinerik Ayrapetyan
19:00		Goodbye Dinner in 7 Qar, Garni

Day 4, Friday

11:00 Social Program

The 9th EMF International Workshop
“BioElectromagnetics and Water Science to Aid
Environmental Health Defence Garni, Armenia
2016

Organizers

Sinerik Ayrapetyan (Armenia)

Marko Markov (USA)

Henri Lai (USA)

International Organizing Committee

David Carpenter (USA)

Fadel Mohammed Ali (Egypt)

Shoogo Ueno (Japan)

Alberto Foletti (Italy)

Oleg Krishtal (Ukraine)

Yuri Grigoriev (Russia)

Gayane Ayrapetyan (Armenia)