

**Keilir Aviation Leaders Forum on Airports and Airlines Winter Operations  
October 10, 2011 Keflavik Airport, Iceland  
Presentation of Chairmen, Moderators, Panelists and Speakers**

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**Dr. Anatoli Chaikovsky**

Head of laboratory

State Scientific Institution

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Dr. Anatoli Chikovsky became Head of laboratory - B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus in 2008 where he has studied and worked since 1970.

Dr. Chikovsky has mainly been working in research and development of atmospheric optics, radiation propagation through inhomogeneous media, remote sensing of environment, laser sounding of atmosphere, developing of LIDAR (**Light Detection And Ranging**) technique and equipment.

During 2000 to 2010 Dr. Anatoli Chikovsky and the B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus participated in establishment of European Aerosol Research LIDAR Network EARLINET in cooperation with 21 scientific team in EC. Dr. Chikovsky was manager of the international project on creation of LIDAR network CIS-LiNet in Former Soviet Union countries, PI in the projects in the 5, 6 and 7 Framework Programs. In this project was also development of the methodology of combine LIDAR and sun-radiometer atmospheric measurements and studying of pollution transport over European area.

#### **EDUCATION**

1975 Ph.D. in Optics, B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus,

1970 M.Sc. in Radiophysics and Electronics, Byelorussian State University, Minsk, Belarus, (with honors).

#### **EMPLOYMENT**

Head of laboratory - B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus, since 2008.

Leading Researcher - B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus, 1990-2008.

Senior Researcher - B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus, 1978 - 1990.

Junior Researcher - B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus, 1973 – 1978.

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Post-graduate course - B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus, 1970 – 1973.

### **RESEARCH FIELDS**

Atmospheric optics, radiation propagation through inhomogeneous media, remote sensing of environment, laser sounding of atmosphere, developing of LIDAR technique and equipment.

### **PROFESSIONAL ACTIVITY**

1970 – 1975 Investigation of statistical characteristics of radiation scattered by random medium; developing technique for retrieval of scattering particles parameters from radiation statistical characteristics measured.

1976 – 1990 Head of scientific team. Developing of methods and equipment for multi-wavelength LIDAR sounding of atmosphere. Manager of contracts on developing LIDAR system with organizations in USSR and abroad. Twelve kinds of LIDAR stationary LIDAR systems and air(ship)- borne LIDARs were designed and produced, some of them as a pilot batch. Unique LIDARs with 8-10 working wavelengths were created. A pilot batch of multi-wavelength LIDARs for the first LIDAR network in the USSR were developed and produced. Developing of methods and algorithms for multi-wavelength LIDAR data processing.

1980 – 1990 Experimental multi-wavelength LIDAR investigations of optical characteristics of atmosphere and aerosol parameters in different geophysical regions, in continental area, in deserts, in Arctic regions, Far-East coastal zone, airplane complex experiments, marine investigation in Atlantic, Indian and Pacific Ocean.

1991- 2000 Developing of LIDAR complex in B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus for monitoring of atmospheric aerosol and ozone. Starting of routine LIDAR observation at the IPNASB LIDAR station for solving national ecological problems in Belarus (1998). The first multi-wavelength polarization LIDAR investigations of stratospheric aerosol changes since Pinatubo eruption till relaxation of aerosol layer to background state. Developing of methodology for monitoring of pollution transport.

2000 – 2010 Establishment of European Aerosol Research LIDAR Network EARLINET in cooperation with 21 scientific team in EC. Manager of the international project on creation of LIDAR network CIS-LiNet in Former Soviet Union countries, PI in the projects in the 5, 6 and 7 Framework Programs. Developing of the methodology of combine LIDAR and sun-radiometer atmospheric measurements. Studying of pollution transport over European area.

2008 – 2010 Developing of complex remote sounding station for monitoring environment in Antarctic. Establishment of radiometric station in Antarctic.

### **PUBLICATIONS**

One monograph, 7 patents and more than 200 papers in international and Russian scientific journals.

### **AWARDS**

Dr. Anatoli Chikovskiy is a winner of the Belarus State Prize.