

## **Lionginas LIUDVINAVIČIUS**

**Born:** on 5 of November in 1952, in Načiūnai village, Kėdainiai district, Lithuania

### **Education**

- 1970 finished Babtai Secondary School
- 1975 graduated from Faculty of Electronics of Kaunas Polytechnic Institute (now – Kaunas University Technology), speciality of Electrical Drives and Industrial Complex Automation
  - since 2008 – post-graduate studies at Vilnius Gediminas Technical University (VGTU)
  - 2013 composed and defended the Doctoral Thesis of Technical Sciences “Investigation of Locomotive Electrodynamic Braking”, VGTU

### **Diplomas, certificates**

- 1970 – Certificate of Secondary Education
- 1975 – Diploma of Electrician Engineer
- 2013 – Diploma of PhD (Doctor of Technical Science), VGTU

### **Research Interests**

- Railway Electrification
- Rolling-stock of Electric Traction
- Rolling-stock of Modern Electric Drive and their Management
- Automatic Management of Railway Facilities
- Locomotive Traction Converters: Controlled Rectifiers, Inverters and so on
- Theoretical and Practical Aspects of Use of Rolling-stock Electrodynamic Braking
- Motors and Generators of Rolling-stock Traction and their Management

### **Teaching subjects**

- Rolling-stock Electric Equipment
- Rolling-stocks Diagnostics

### **Scientific activity**

7 scientific manuscripts of ISI Master Journals List (*Web of Sciences*);

3 manuscripts in other scientific issues cited in data bases ICONDA, SCOPUS, VINITI, EBSCO, Elsevier, etc.;

4 manuscripts published in Proceedings of International Conferences;

3 articles published in other reviewed issues.

### **Study manuals**

- Co-author of Guidebook “Railways. General Course”, 2009;
- Co-author of Guidebook “Electric drives of traction rolling-stock and their management”, 2010;
- Co-author of Handbook “Diagnostics of locomotive electric power parameters”, 2012;
- Co-author of Handbook “Exercise works of locomotive electric power parameters”, 2012.

### **Foreign language**

- Russian
- Polish
- English
- French

### **Job activity**

- 1975–1983 – a Head of Vilnius Repair Depot of Diesel Train
- 1983–1992 – a Head of Electric Train Depot
- 1992–1996 – a Head of Locomotive Department of State Enterprise “Lithuanian Railways”
- 1996–2000 – a Head of Vilnius Locomotive Depot
- 1998–2013 – a Lecturer of Railway Transport Department, VGTU
- since 2013 – Associate Professor (Docent) of Railway Transport Department, VGTU

### **Traineeships**

- 1979 and 1983 – Leningrad (now – St. Petersburg ) Institute of Railway Transport
- 1994 – the French Company GEC Alstom
- 1994–1998 – Poland, Hungary, Czech Republic, Finland, Germany, Sweden Railway Enterprises
- 2006 – Bombardier Rolling-stock Factory in Katowice and Wroclaw, Poland
- 2009 –Siemens AG, Germany
- 2011 – Royal Institute of Technology in Stockholm, Sweden

### **Participation in international projects and programmes**

- since 2007 – a Member of European Rail Research Network of Excellence (EURNEX)

### **Participation in National Research and Study Projects**

- since 2010 – a promoter of National Complex Program (NCP) project “Creation and renewal of R & D infrastructure, performance of R & D activities in Transport and civil engineering sectors higher education“. Acronym: TRANCIV-R
- 2010-2013 – a promoter of project "Renewal of study programmes in accordance with EU requirements, improving the quality of the courses of study and application of innovative methods". Code No. VP1-2.2-MES-07-C-01-023. Promoter

### **Other activities**

- 1973–1975 – a Manager of Project “Lithuanian railway electrification”
- 1994 – a Manager of Project “Acquisition of self-propelled road maintenance and catenary repair machines”
- 1994 – a Manager of Project “Purchase and Repair of new rolling-stock”
- 1994 – an Manager of Project “Purchase of Double-decker Electric Trains”
- 1995 – an Expert of Project "Rail-buses“
- 1995–1996 – a Manager of Project “The Modernization of Traction Rolling-stock”
- 1998–2007 – a Participant of Project “Acquisition of Locomotives (Siemens)”
- since 1995 till now – a Member of Lithuanian Engineers Union
- since 1998 till now – a Member of Lithuanian Railway Engineers Union, the Honored Railroader
- 2006–2008 – an Expert of Project “Purchase of Double-decker Electric Trains” (Head of Project Part)